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OCCUPATIONAL SURVEY REPORT



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(6) ELECTRONICS PRINCIPLES OCCUPATIONAL SURVEY REPORT,
SPACE SYSTEMS COMMAND AND CONTROL OPERATOR/
TECHNICIAN CAREER LADDER,
AFSC's 30830, 30850, 30870, AND 30890.

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OCCUPATIONAL SURVEY BRANCH
USAF OCCUPATIONAL MEASUREMENT CENTER
LACKLAND AFB TEXAS 78236

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TABLE OF CONTENTS

	PAGE NUMBER
PREFACE -----	2
INTRODUCTION -----	3
DEVELOPMENT OF THE ELECTRONICS PRINCIPLES INVENTORY -----	3
ADMINISTRATION -----	4
RESULTS -----	4
APPENDIX -----	5

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PREFACE

This report presents a summary of the results of a detailed Air Force Electronics Principles survey of the Space Systems Command and Control Operator/Technician career ladder. AFSC's 30830, 30850, 30870, and 30890.

The Electronics Principles Inventory (EPI) was developed by Major Thomas J. O'Connor and Mr. Hendrick W. Ruck and the survey data were analyzed by Mr. Ruck. Both are members of the Occupational Survey Branch, USAF Occupational Measurement Center, Lackland AFB, Texas.

Computer programs for analyzing the occupational data were designed by Dr. Raymond E. Christal, Occupational and Manpower Research Division, Air Force Human Resources Laboratory (AFHRL), and were written by the Project Analysis and Programming Branch, Computational Sciences Division, AFHRL. *are presented*

Distribution of this report is made upon request to the USAF Occupational Measurement Center, attention of the Chief, Occupational Survey Branch (OMY), Lackland AFB, Texas 78236.

This report has been reviewed and is approved.

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USAF Occupational Measurement Center

ELECTRONICS PRINCIPLES OCCUPATIONAL SURVEY REPORT
SPACE SYSTEMS COMMAND AND CONTROL OPERATOR/TECHNICIAN CAREER LADDER
AFS 308X0

INTRODUCTION

This report summarizes the results of the first full-scale operational electronics principles survey of an Air Force electronics specialty. The survey was directed by HQ ATC/TT, Major General C. G. Cleveland, in a letter dated 11 February 1975. In that letter General Cleveland asked the USAF Occupational Measurement Center to review the use of electronics training by personnel on the job. The Space Systems Command and Control specialty (AFS 308X0) was selected to be surveyed after consultation with HQ ATC personnel.

This report presents a brief summary of (a) the development of the Electronics Principles Inventory (EPI) which was used to collect the data, (b) the administration of the EPI to AFS 308X0 job incumbents, and (c) the data resulting from the survey.

DEVELOPMENT OF THE ELECTRONICS PRINCIPLES INVENTORY

Creation of the EPI required a lengthy process of development and review. A chronological description of the process will not be undertaken in this report; however, the highlights of the process will be presented.

Personnel from the Occupational Survey Branch working on the project were well qualified in theoretical physics and electronics as well as having expertise in task analysis and survey development. Electronics experts from the five ATC training centers who averaged 12 years of maintenance experience and four years of electronics principles instruction experience spent several weeks working on the development of the EPI. Over three-hundred maintenance personnel from SAC, TAC, ADCOM, MAC, and AFCS participated in the development of the inventory.

In addition, personnel at the Electronics Engineering Department of the USAF Academy and at the Air Force Human Resources Laboratory reviewed and critiqued the EPI during its development.

The EPI used in the 308X0 survey contained 1266 items covering all electronics principles training given at the five ATC technical training centers.

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ADMINISTRATION

The EPI was administered in person and by mail to 174 DAFS 308X0 airmen worldwide. This total represents approximately 70 percent of all airmen assigned to the career ladder. However, due to personnel being in student status, classified locations, etc., only 200 airmen were eligible to be surveyed. Therefore, 87 percent of the eligible incumbents were surveyed.

There were no differences in the responses to the survey by airmen completing the EPI under supervision and airmen completing the booklet after receiving it through the mail. For purposes of analysis, data from both groups were combined.

RESULTS

Airmen in the 308X0 career ladder were found to specialize in either operations or maintenance, but did not perform both functions. The job groups identified during the EPI analysis of this ladder were found to be essentially the same as those reported in the Occupational Survey Report (AFPT 90-308-071, 16 Sep 75); that is, clusters of airmen were virtually identical regardless of whether those clusters were based on similarity of tasks performed or similarity of knowledges required to perform them. Evidently specific jobs require specific knowledge. This, of course, could be assumed, but it is rewarding to obtain objective support for such an assumption, at least in one career field.

The fact that knowledge inventories and task inventories are part of the same dimension has three major implications. First, it argues for expanding the knowledge inventory program into other fields. It also further validates the use of task inventory results in developing Specialty Knowledge Tests (SKT). Finally, it further supports the idea that task inventories are, in fact, measuring what a person does on the job and what knowledge he should be given during his training.

The data which reflect the percent of various groups of incumbents answering "yes" to each item of the EPI are presented in the appendix to this report. In the appendix, group summary three (GPSUM3), contains data for all DAFSC 308X0, 30830, 30870, and 30890 personnel. GPSUM7 contains data for all DAFSC 308X0, 30830, and 30870 maintenance personnel. GPSUM8 contains data for all DAFSC 308X0, 30830, and 30870 operator personnel. The 62 electronics subject areas are separated by heavy lines, and the corresponding modules from Keesler course 3AQR30020-1 are annotated along the right-hand side.

APPENDIX

TABLE OF CONTENTS

REPORT NUMBER **REPORT TO** **REPORT TITLE**

100 101

42

PCT MRS PREPS DUTIES/TASKS BY DAFSC GPS

TABULATION OF PERCENT MEMBERS PERFORMING DUTIES AND TASKS BY DAFSC
GROUPS IN THE JOINT CAREER FIELD.

REPORTS ON THE FOLLOWING GROUPS WERE REQUESTED

GROUP IDENTITY	SPC001	ALL JOINT AIRMEN DAFSC J08820	CONTAINING 174 MEMBERS
GROUP IDENTITY	SPC002	ALL AIRMEN DAFSC J08820	CONTAINING 58 MEMBERS
GROUP IDENTITY	SPC003	ALL AIRMEN DAFSC J0870	CONTAINING 99 MEMBERS
GROUP IDENTITY	SPC004	ALL AIRMEN DAFSC J0880	CONTAINING 16 MEMBERS

PCT MARS PRINC DUTIES/TASKS BY DAFSC GPS

DUTY GROUP SUMMARY
PERCENT MEMBERS PERFORMING

683H3 PAGE

308X0 3083C 308-C 3083C

DUTY	DUTY			DUTY		
	SPC 001	SPC 002	SPC 003	SPC 004	SPC 005	SPC 006
A - MATHEMATICS, DIRECT CURRENT, VOLTAGE, AND RESISTANCE USES, ALTERNATING CURRENT, INDUCTORS, AND INDUCTIVE CAPACITORS, CAPACITIVE REACTANCE, TRANSFORMERS, AND TRANSMISSION	86	86	86	86	86	86
B - MCL CIRCUITS, SERIES AND PARALLEL RESONANCE, TIME CONSTANTS, AND FILTERS	74	78	75	81		
C - COUPLING, SOLDERING, AND RELAYS	56	64	58	38		
D - MICROPHONES, SPEAKERS, AND OSCILLOSCOPES	50	60	46	31		
E - SEMICONDUCTOR DIODES, TRANSISTORS, AND TRANSISTOR AMPLIFIERS	53	63	51			
F - SOLID STATE SPECIAL PURPOSE DEVICES, POWER SUPPLIES, AND OSCILLATORS	58	66	56	46		
G - MULTIVIBRATORS, LIMITERS, CLAMPERS, AND ELECTRON TUBES	48	53	49	31		
H - ELECTRON TUBE AMPLIFIERS AND CIRCUITS, SPECIAL PURPOSE ELECTRON TUBES, HETERODYNING, MODULATION, AND SYSTEMS, FM SYSTEMS, AND NUMBERING SYSTEMS	42	47	43	13		
I - LOGIC FUNCTIONS, BOOLEAN EQUATIONS, AND COUNTERS, MOTORS, AND GENERATORS	55	62	55	25		
J - METER MOVEMENTS, SATURABLE REACTORS, MAGNETIC AMPLIFIERS, AND WAVESHAPE CIRCUITS	57	67	55	31		
K - SINGLE SIDEBAND SYSTEMS, PULSE MODULATION SYSTEMS, AND ANTENNAS	52	42	51	14		
L - TRANSMISSION LINES, WAVEGUIDES AND CAVITY RESONATORS, AND MICROWAVE AMPLIFIERS AND OSCILLATORS	40	43	40	25		
M - REGISTERS, STORAGE DEVICES, AND DIGITAL TO ANALOG CONVERTERS	60	72	57	38		
N - TRANSISTORS, SCHOTTKY TRIGGERS, AND CABLE FABRICATION	40	50	37	17		
O - INPUT/OUTPUT DEVICES, PHOTO SENSITIVE DEVICES, AND SYNCHRONOUS VIBRATIONS	46	55	46	31		
P - INTEGRATED LASERS, AND DISPLAY TUBES	16	10	19	4		
Q - PROGRAMMING, DB AND POWER RATIOS	58	62	60	31		

PCT MEAS/PFMS DUTIES/TASKS BY DAFSC QPS
 TASK GROUP SUMMARY
 PERCENT MEMBERS PERFORMING

GPMU 1 PAGE

30810 30830 30870 30890

DY-TSA

- A 1 AI-01 DO YOU USE AN INSTRUMENT, SUCH AS METER OR AN OSCILLOSCOPE, IN WHICH IT IS NECESSARY TO AMPLIFY OR
 A 2 AI-02 DO YOU USE A PUBLICATION, SUCH AS A TECHNICAL ORDER OR MAINTENANCE MANUAL, IN WHICH IT IS NECESSARY TO REARRANGE AND SOLVE FORMULAS OR EQUATIONS.
 A 3 AI-03 DO YOU FIND THE SQUARE ROOT OF X QUANTITY.
 A 4 AI-04 DO YOU FIND THE SQUARE ROOT OF X QUANTITY.
 A 5 AI-05 DO YOU SOLVE FOR AN UNKNOWN QUANTITY.
 A 6 AT-AU DO YOU CONVERT NUMBERS TO LOGARITHMS.
 A 7 AI-07 DO YOU USE LOGARITHM TABLES IN ANY TYPE OF CALCULATIONS.
- A 8 AI-08 DO YOU SOLVE QUADRATIC EQUATIONS.
 A 9 AT-AU DO YOU USE THE NATURAL SYSTEM OF LOGARITHMS. THIS IS THE LOGARITHM SYSTEM WHICH USES THE NUMBER 2.718 AS ONE OF TWO VECTORS.
- A 10 AI-10 DO YOU WORK WITH VECTOR QUANTITIES, SUCH AS ADDING OR SUBTRACTING TWO VECTORS.
- A 11 AI-11 DO YOU WORK WITH TRIGONOMETRIC FUNCTIONS SUCH AS SINE, COSINE, OR TANGENT.
- A 12 AT-AU DO YOU DETERMINE AREAS OF PLANE FIGURES, SUCH AS AREAS OF CIRCLES OR TRIANGLES.
- A 13 AT-AU DO YOU SOLVE OR USE SIMULTANEOUS EQUATIONS.
- A 14 AI-14 DO YOU SOLVE OR USE PROPORTIONS.
- A 15 AT-AU DO YOU USE THE TERM ELECTROMOTIVE FORCE (EMF).
- A 16 AI-02 DO YOU USE THE TERM ELECTROMOTIVE FORCE (EMF).
 A 17 AT-AU DO YOU USE THE TERM OHM.
- A 18 AI-04 DO YOU USE THE TERM ION.
- A 19 AT-AU DO YOU USE THE TERM DYNE.
- A 20 AI-06 DO YOU USE THE TERM AMPERE.
- A 21 AI-07 DO YOU USE THE TERM NEUTRON.
- A 22 AI-08 DO YOU USE THE TERM COULOMB.
- A 23 AT-AU DO YOU USE THE TERM PROTON.
- A 24 AT-AU DO YOU WORK WITH RESISTORS IN YOUR PRESENT JOB.
- A 25 AT-AU DO YOU INSPECT RESISTORS.
- A 26 AI-03 DO YOU CLEAN RESISTORS.
- A 27 AT-AU DO YOU ADJUST RESISTORS.
- A 28 AI-05 DO YOU CHECK OHMIC VALUE OF RESISTORS.
- A 29 AT-AU DO YOU REMOVE OR REPLACE RESISTORS.
- A 30 AI-07 DO YOU USE OR REFER TO TEMPERATURE COEFFICIENTS FOR RESISTORS ON YOUR TASKS IN YOUR PRESENT JOB.
- A 31 AI-08 DO YOU USE OR REFER TO RESISTOR SYMBOLS, SUCH AS YOUN FIXED RESISTORS OR FOR TAPPED RESISTORS.
- A 32 AI-09 DO YOU IDENTIFY OR CLASSIFY THE RESISTORS YOU WORK WITH AS CARBON, FIXED WIRE, SLIDE WIRE, THIN FILM, ETC.

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PCT MEMBERS PERFORMING DUTIES/TASKS BY DAFSC GPS
TASK GROUP SUMMARY
PERCENT MEMBERS PERFORMING

GPSUMJ PAGE 5

30C2X0 30830 30870 30890

DO-TSK	SPC 001	SPC 002	SPC 003	SPC 004
A 33 A3-10 DO YOU USE RESISTOR COLOR CODES WHICH INDICATE THE OHMIC VALUE OF RESISTANCE.	97	57	41	36
A 39 A3-11 DO YOU USE RESISTOR COLOR CODES WHICH INDICATE THE TOLERANCE OF RESISTORS.	44	83	40	31
A 35 A3-12 DO YOU USE RESISTOR COLOR CODES WHICH INDICATE THE FAILURE RATE OF RESISTORS?	10	17	7	6
A 36 A3-13 DO YOU MAKE DECISIONS IN WHICH YOU MUST DETERMINE HOW TWO OR MORE BATTERIES MUST BE CONNECTED TOGETHER TO REPRESENT ANY OF THE FOLLOWING COMPONENTS: BATTERY,	16	19	13	
A 37 A3-14 DO YOU USE OR REFER TO THE SCHEMATIC SYMBOLS WHICH ARE PRESENT ON THE FOLLOWING COMPONENTS: BATTERY,	49	59	45	31
A 38 A3-15 DO YOU CALCULATE TOTAL RESISTANCE FOR SERIES RESISTIVE CIRCUITS.	20	33	26	13
A 39 A3-16 DO YOU CALCULATE TOTAL CURRENT FOR SERIES RESISTIVE CIRCUITS.	77	33	66	6
A 40 A3-17 DO YOU CALCULATE INDIVIDUAL VOLTAGE DROPS FOR SERIES RESISTIVE CIRCUITS.	29	34	27	13
A 41 A3-18 DO YOU CALCULATE POWER DISSIPATION FOR SERIES RESISTIVE CIRCUITS.	24	29	23	6
A 42 A3-19 DO YOU CALCULATE TOTAL RESISTANCE FOR SERIES PARALLEL RESISTIVE CIRCUITS.	22	31	26	13
A 43 A3-20 DO YOU CALCULATE TOTAL CURRENT FOR SERIES PARALLEL RESISTIVE CIRCUITS.	25	26	24	6
A 44 A3-21 DO YOU CALCULATE INDIVIDUAL VOLTAGE DROPS FOR SERIES-PARALLEL RESISTIVE CIRCUITS.	27	31	26	13
A 45 A3-22 DO YOU CALCULATE INDIVIDUAL BRANCH CURRENTS FOR SERIES-PARALLEL RESISTIVE CIRCUITS.	23	29	29	6
A 46 A3-23 DO YOU CALCULATE POWER DISSIPATION FOR SERIES-PARALLEL RESISTIVE CIRCUITS.	22	29	22	6
A 47 A3-24 DO YOU CALCULATE TOTAL RESISTANCE FOR PARALLEL RESISTIVE CIRCUITS.	26	29	26	13
A 48 A3-25 DO YOU CALCULATE TOTAL CURRENT FOR PARALLEL RESISTIVE CIRCUITS.	26	29	26	6
A 49 A3-26 DO YOU CALCULATE INDIVIDUAL VOLTAGE DROPS FOR PARALLEL RESISTIVE CIRCUITS.	25	26	26	13
A 50 A3-27 DO YOU CALCULATE INDIVIDUAL BRANCH CURRENTS FOR PARALLEL RESISTIVE CIRCUITS.	23	24	24	6
A 51 A3-28 DO YOU CALCULATE POWER DISSIPATION FOR PARALLEL RESISTIVE CIRCUITS.	22	24	23	6
B 52 B1-01 DO YOU MEASURE RESISTANCE.	91	95	35	25
B 53 B1-02 DO YOU REPAIR AN OHMMETER.	4	5	7	0
B 54 B1-03 DO YOU MEASURE VOLTAGE.	45	60	36	25
B 55 B1-04 DO YOU REPAIR A VOLTMETER.	3	3	7	0
B 56 B1-05 DO YOU REPAIR AN AMMETER.	4	3	5	0
B 57 B1-06 DO YOU MEASURE CURRENT.	39	53	33	10
B 58 B1-07 DO YOU USE A MULTIMETER.	41	55	26	10
MODULE 6 - MULTIMETER USES				

TASK GROUP SUMMARY

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CHAPTER 3 PAGE

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MODULE 14 - INDUCTORS AND REACTANCE

INFLUENCE OF INDUCED REACTANCE

PCT MARS PRIMING DUTIES/TASKS BY DAFSC GPS

TASK GROUP SUMMARY
PERCENT MEMBERS PERFORMING

	SPM#	PAGE		
	SPC U01	SPC U02	SPC UG3	SPC UGG4
8 88 C1-22 DO YOU USE OR REFER TO THE GENERAL RULE THAT INDUCTIVE REACTANCE IS DIRECTLY PROPORTIONAL TO POWER INDUCTIONS.	19	17	19	6
C 89 C1-23 DO YOU WORK WITH POWER INDUCTIONS.	23	24	23	13
C 90 C1-24 DO YOU WORK WITH AUDIO FREQUENCY INDUCTORS.	24	24	23	19
C 91 C1-25 DO YOU WORK WITH RADIO FREQUENCY INDUCTORS.	37	50	33	31
C 92 C1-26 DO YOU WORK WITH CAPACITORS ON CIRCUITS CONTAINING CAPACITORS ON YOUR PRESENT JOB.	51	52	46	38
C 93 C1-02 DO YOU INSPECT CAPACITORS.	50	52	35	19
C 94 C1-03 DO YOU CLEAN CAPACITORS.	28	50	45	0
C 95 C1-04 DO YOU ADJUST CAPACITORS.	36	52	31	6
C 96 C1-05 DO YOU TEST CAPACITORS.	34	46	49	6
C 97 C1-06 DO YOU DISCHARGE CAPACITORS.	35	43	33	6
C 98 C1-07 DO YOU REMOVE OR REPLACE CAPACITORS.	51	51	51	19
C 99 C1-08 DO YOU USE OR REFER TO DISTRIBUTED CAPACITANCE.	14	12	15	6
C 100 C1-09 DO YOU USE OR REFER TO ORBITAL STRESS OF ELECTRONS IN A DIELECTRIC.	1	0	2	0
C 101 C1-10 DO YOU USE OR REFER TO FARADS, MICROFARADS, OR PICOFARADS.	45	53	42	25
C 102 C1-11 DO YOU USE OR REFER TO CAPACITANCE.	44	47	43	31
C 103 C1-12 DO YOU USE OR REFER TO DIELECTRIC CONSTANT.	7	9	7	6
C 104 C1-13 DO YOU USE OR REFER TO WORKING VOLTAGE RATING OF CAPACITORS.	32	33	36	13
C 105 C1-14 DO YOU USE OR REFER TO CAPACITIVE REACTANCE.	20	21	20	6
C 106 C1-15 DO YOU USE OR REFER TO CAPACITOR-COUPLED COPIES.	20	17	23	6
C 107 C1-16 THE CAPACITORS YOU WORK WITH ARE IN DC CIRCUITS.	39	52	35	13
C 108 C1-17 THE CAPACITORS YOU WORK WITH ARE IN AC CIRCUITS.	36	37	33	13
C 109 C1-18 THE CAPACITORS YOU WORK WITH ARE IN CIRCUITS WITH BOTH DC AND AC.	46	53	42	31
C 110 C1-19 THE CAPACITORS YOU WORK WITH ARE DON'T REMEMBER WHICH CIRCUITS.	2	2	1	6
C 111 C1-20 DO YOU CALCULATE CAPACITANCE FOR A PARTICULAR CAPACITOR USING FORMULAS.	5	3	5	6
C 112 C1-21 DO YOU USE OR REFER TO THE GENERAL RULE THAT THE CAPACITANCE OF A CAPACITOR IS DIRECTLY PROPORTIONAL	5	5	5	0
C 113 C1-22 DO YOU USE OR REFER TO THE GENERAL RULE THAT THE CAPACITANCE OF A CAPACITOR IS INVERSELY PROPORTIONAL	0	5	6	6
C 114 C1-23 DO YOU CALCULATE THE TOTAL CAPACITANCE OF CAPACITORS IN SERIES.	17	14	20	6
C 115 C1-24 DO YOU CALCULATE THE TOTAL CAPACITANCE OF CAPACITORS IN PARALLEL.	17	12	20	6
C 116 C1-25 DO YOU CALCULATE THE TOTAL CAPACITANCE OF CAPACITORS IN SERIES-PARALLEL CIRCUITS.	14	14	14	6
C 117 C1-26 DO YOU USE OR REFER TO THE GENERAL RULE THAT CURRENT DOES NOT FLOW THROUGH CAPACITORS, IT ONLY	21	24	19	6

SPM# 308X0 30890 30890
PAGE 1

WORLD WAR II MEMORIALS IN THE UNITED STATES.

C 138 C-2-IT GO YOU CALCULATE TURN'S RATIOS WHEN WORKING WITH TRANSFORMERS.

C 136 C2-09 DO YOU USE THE SYMBOL FOR MUTUAL INDUCTANCE, NO
C 137 C2-10 DO YOU REFER TO OR USE THE CONCEPT OF COUPLING

C-135 C-135 AS YOU MAKE A DISTINCTION BETWEEN MUTUAL INDUCTION AND MUTUAL INDUCTANCE THAT.

C-133 C2-08 BUT YOU REMOVE OR REPLACE COMPLETE TRANSFORMERS.
C-134 C2-07 DO YOU REMOVE OR REPLACE TRANSFORMER PARTS, SUCH

C 130 C2-03 00 YOU CLEAN TRANSFORMERS,
C 131 C2-04 00 YOU ADJUST TRANSFORMERS,
C 132 C2-05 00 YOU TURN OFF TRANSFORMERS.

C 12-20-01 00 100 MARCH WITH THE 55TH DIVISION NO 1000 PRESENTS FOR INSPECTION.

C 119 C1-28 DO YOU USE OR REFER TO THE GENERAL RULE THAT CURRENT LEADS VOLTAGE IN AC CAPACITOR CIRCUITS.

C 118 C1-27 DO YOU USE OR REFER TO THE GENERAL GUIDE THAT
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Task Group Summary
Percent members performing

PCF NEWS PROGRAM OUTLINES/TASKS BY SOURCE 65

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ICT IN THE CLASSROOM 203

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CONTINUATION

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PCT WORKS PERFORMING DUTIES/TASKS BY DAPSC GPS
TASK GROUP SUMMARY
PERCENT MEMBERS PERFORMING

6PSUN3 PAGE 10

01-TSK

	SPC 001	SPC 002	SPC 003	SPC 004
C 175 CJ-05 DO YOU USE OR REFER TO PERMEABILITY OF MAGNETIC MATERIALS.	7	7	9	0
C 176 CJ-06 DO YOU USE OR REFER TO RESIDUAL MAGNETISM.	19	16	15	0
C 177 CJ-07 DO YOU USE OR REFER TO MAGNETIC LINES OF FORCE OR FLUX.	21	16	28	0
C 178 CJ-08 DO YOU USE OR REFER TO BEMER'S THEOREM OF MAGNETISM.	3	0	0	0
C 179 CJ-09 DO YOU USE OR REFER TO THE DENSITY THEORY OF MAGNETISM.	2	2	2	0
C 180 CJ-10 DO YOU USE OR REFER TO MAGNETIC INDUCTION.	11	5	15	0
C 181 CJ-11 DO YOU USE OR REFER TO FLUX DENSITY.	1	7	16	0
C 182 CJ-12 DO YOU USE OR REFER TO THE GENERAL RULE THAT FOR MAGNETIC POLES, LIKE POLES REPEL AND UNLIKE POLES ATTRACT.	16	14	19	0
C 183 CJ-13 DO YOU USE THE LEFT HAND THUMB RULE TO FIND THE DIRECTION OF MAGNETIC FIELDS ABOUT STRAIGHT WIRES.	8	5	11	0
C 184 CJ-14 DO YOU USE THE LEFT THUMB RULE TO FIND THE NORTH POLE OF A CURRENT CARRYING COIL.	7	5	10	0
C 185 CJ-15 DO YOU WORK WITH AC, DC, OR RCL CIRCUITS ON YOUR PRESENT JOB.	37	35	12	0
C 186 CJ-16 DO YOU USE OR REFER TO VECTORS WHEN WORKING WITH RCL CIRCUITS.	5	5	0	0
C 187 CJ-17 DO YOU USE OR REFER TO PYTHAGOREAN THEOREM WHEN WORKING WITH RCL CIRCUITS.	5	3	5	0
C 188 CJ-18 DO YOU USE OR REFER TO SIN WHEN WORKING WITH RCL CIRCUITS.	7	7	7	0
C 189 CJ-19 DO YOU USE OR REFER TO TANGENT WHEN WORKING WITH RCL CIRCUITS.	7	5	8	0
C 190 CJ-20 DO YOU USE OR REFER TO COTANGENT WHEN WORKING WITH RCL CIRCUITS.	13	14	13	0
C 191 CJ-21 DO YOU USE OR REFER TO SECANT WHEN WORKING WITH RCL CIRCUITS.	9	5	15	0
C 192 CJ-22 DO YOU USE OR REFER TO COSECANT WHEN WORKING WITH RCL CIRCUITS.	19	16	22	0
C 193 CJ-23 DO YOU USE OR REFER TO SINE WHEN WORKING WITH RCL CIRCUITS.	9	6	4	0
C 194 CJ-24 DO YOU USE OR REFER TO COSINE WHEN WORKING WITH RCL CIRCUITS.	9	6	4	0
C 195 CJ-25 DO YOU USE OR REFER TO TAN WHEN WORKING WITH RCL CIRCUITS.	11	9	6	0
C 196 CJ-26 DO YOU USE OR REFER TO COTAN WHEN WORKING WITH RCL CIRCUITS.	9	6	4	0
C 197 CJ-27 DO YOU USE OR REFER TO SECANT WHEN WORKING WITH RCL CIRCUITS.	13	22	27	15
C 198 CJ-28 DO YOU USE OR REFER TO COSECANT WHEN WORKING WITH RCL CIRCUITS.	5	31	13	0

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11

CIRCUIT

1. **CHITRA.** चित्रा वास्तविक रूप से असुखी है औ उसकी जीवन की अवस्था भी असुखी है।

CIRCUITS CURRENT OR COMPARISON VOLTAGES AFTER A
NUMBER OF CYCLES. THE TIME REQUIRED FOR CIRCUIT CURRENT
OR COMPONENT TO OBTAIN STATIONARY STATE IS DETERMINED
BY THE TIME CONSTANT $\tau = L/R$, WHERE L IS THE INDUCTANCE
AND R IS THE RESISTANCE. THE TIME CONSTANT IS DETERMINED
BY THE NUMBER OF CYCLES N AS $\tau = N T$, WHERE T IS THE
PERIOD OF THE CYCLES.

MONITORING E 2E DISEASES AND DESENCE

DODANI ET AL.

18

0-220-00-0000 YOU USE OR REFER TO THE ORIGINAL GIVE THAT
0-220-00-0000 COMMENT MENTION AND TALKING MAKING ALL

S7-15

SHIHO 2024 SUMMER ISSUE
A FESTIVAL OF ARTS 2024

ESTATE PLANNING AND INVESTMENT MANAGEMENT

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THESE ARE THE WORDS WHICH I TALKED TO YOU AND YOUR MOTHER ON THE DAY OF YOUR BIRTH.

01 - 02 - 03 - 04 - 05 - 06 - 07 - 08 - 09 - 010

1-10-89 TO YOU WORK WITH DANCE & DRAMA COUNCIL OF CINCINNATI.

— 4 —
— 3 —
— 2 —
— 1 —

THE THREE MEASURES WHICH COMBINEDLY PRODUCE THE SENSATIONAL OUTCOMES OF THE PRACTICE ARE THE FOLLOWING:

1-12-20 00 YOU REMAINING ON SCHEMATIC DRAWINGS AND 00 00

THESE STATEMENTS ARE NOT MEANT TO BE CONSIDERED AS AN OFFER OR INVITATION TO PURCHASE ANY SECURITIES.

...and so on. All such terms measure mean cumulative value in a given time.

26. 27. 28. 29. 30. 31. 32. 33. 34. 35. 36. 37. 38. 39. 40. 41. 42. 43. 44. 45. 46. 47. 48. 49. 50. 51. 52. 53. 54. 55. 56. 57. 58. 59. 60. 61. 62. 63. 64. 65. 66. 67. 68. 69. 70. 71. 72. 73. 74. 75. 76. 77. 78. 79. 80. 81. 82. 83. 84. 85. 86. 87. 88. 89. 90. 91. 92. 93. 94. 95. 96. 97. 98. 99. 100.

THESE ARE CLOTHES WHICH I HAVE PURCHASED.

DO YOU REMOVE OR REPLACE COMPONENT PARTS OF

MEASURES OF LIFE SPANNING

SCHOOL OF BUSINESS ADMINISTRATION

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PCT MARS PRFMG DUTIES/TASKS BY DAPSC GPS
PERCENT MEMBERS PERFORMING

GPSUM3 PAGE 15

308X0 30830 30870 30890

CV-TSK

| | SPC 001 | SPC 002 | SPC 003 | SPC 004 |
|--|---------|---------|---------|---------|
| E 312 E-15 DO YOU USE OR REFER TO THE SINGLE POLE, SINGLE THROTTLED (SPST), HORizontally CLOSED (NC) SCHEMATIC SYMBOLS | 91 | 90 | 92 | 10 |
| E 313 E-16 DO YOU USE OR REFER TO THE SINGLE POLE, DOUBLE THROTTLED (SPDT) SCHEMATIC SYMBOLS FOR RELAYS? | 91 | 90 | 29 | 19 |
| E 314 E-17 DO YOU USE OR REFER TO THE DOUBLE POLE, DOUBLE THROTTLED (SPST) SCHEMATIC SYMBOLS FOR RELAYS? | 91 | 90 | 39 | 19 |
| E 315 E-18 DO YOU USE OR REFER TO THE OTHER RELAY SYMBOLS SCHEMATIC SYMBOLS FOR RELAYS? | 30 | 32 | 26 | 26 |
| E 316 E-19 DO YOU CHECK THE ELECTRICAL CONTINUITY OF COILS BY MEASURING RESISTANCE? | 30 | 36 | 29 | 13 |
| F 317 F-OUT QUEST YOUR JOB INVOLVE ANY TASKS DEALING WITH MICROPHONES? | 30 | 27 | 31 | 25 |
| F 318 F1-02 DO YOU INSPECT MICROPHONES. | 7 | 9 | 9 | 0 |
| F 319 F1-03 DO YOU CLEAN MICROPHONES. | 1 | 3 | 7 | 0 |
| F 320 F1-04 DO YOU OPERATE (HAVE A JOB IN WHICH YOU USE MICROPHONES). | 25 | 22 | 26 | 25 |
| F 321 F1-05 DO YOU TROUBLESHOOT MICROPHONES AS FAR AS CHECKING WIRE CONNECTORS BUT DO NOT TROUBLESHOOT DOWN TO MICROPHONES COMPONENTS? | 5 | 9 | 4 | 0 |
| F 322 F1-06 DO YOU TROUBLESHOOT DOWN TO MICROPHONES | 5 | 5 | 5 | 0 |
| F 323 F1-07 DO YOU REMOVE OR REPLACE THE COMPLETE MICROPHONE. | 7 | 9 | 7 | 0 |
| F 324 F1-08 DO YOU REMOVE OR REPLACE MICROPHONE PARTS. | 3 | 2 | 5 | 0 |
| F 325 F1-09 DO YOU PERFORM TASKS ON CARBON MICROPHONES. | 9 | 9 | 10 | 0 |
| F 326 F1-10 DO YOU PERFORM TASKS ON CAPACITOR MICROPHONES. | 1 | 2 | 0 | 0 |
| F 327 F1-11 DO YOU PERFORM TASKS ON CRYSTAL MICROPHONES. | 2 | 2 | 3 | 0 |
| F 328 F1-12 DO YOU PERFORM TASKS ON DYNAMIC MICROPHONES. | 7 | 2 | 3 | 0 |
| F 329 F1-13 DO YOU PERFORM TASKS ON VELOCITY RIBBON MICROPHONES. | 0 | 0 | 0 | 0 |

MODULE 17 - MICROPHONES AND SPEAKERS

| | 40 | 34 | 44 | 25 |
|---|----|----|----|----|
| F 330 F2-01 DOES YOUR JOB INVOLVE ANY TASKS DEALING WITH SPEAKERS? SUCH AS LISTENING TO AUDIO OUTPUTS, ETC. | 10 | 7 | 12 | 0 |
| F 331 F2-02 DO YOU INSPECT SPEAKERS. | 7 | 7 | 0 | 0 |
| F 332 F2-03 DO YOU CLEAN SPEAKERS? | 29 | 24 | 32 | 25 |
| F 333 F2-04 DO YOU OPERATE (HAVE A JOB IN WHICH SPEAKERS ARE USED)? | 10 | 9 | 12 | 0 |
| F 334 F2-05 DO YOU TROUBLESHOOT SPEAKERS AS FAR AS CHECKING WIRE CONNECTORS BUT DO NOT TROUBLESHOOT DOWN TO SPEAKER COMPONENTS. | 0 | 5 | 7 | 0 |
| F 335 F2-06 DO YOU REMOVE OR REPLACE THE COMPLETE SPEAKER. | 13 | 11 | 16 | 0 |
| F 336 F2-07 DO YOU REMOVE OR REPLACE SPEAKER PARTS. | 1 | 2 | 1 | 0 |
| F 337 F2-08 DO YOU RECURRED TO PERFORM ANY TASKS ON SPEAKER CONES. | 1 | 0 | 1 | 0 |
| F 338 F2-09 ARE YOU REQUIRED TO PERFORM ANY TASKS ON SPEAKER SPIDERS. | 0 | 0 | 0 | 0 |
| F 339 F2-10 ARE YOU REQUIRED TO PERFORM ANY TASKS ON SPEAKER FIELD COILS. | 1 | 0 | 0 | 0 |

PCT MARS PERFORMING DUTIES/TASKS BY DAFSC CPS

TASK GROUP SUMMARY
-- PERCENT MEMBERS PERFORMING

WPSUM3 PAGE 17

308X0 30830 30870 30890

OR-TSK

| | SPC
001 | SPC
002 | SPC
003 | SPC
004 | SPC
91 | SPC
92 | SPC
93 |
|---|------------|------------|------------|------------|-----------|-----------|-----------|
| 6 364 61-11 DO YOU USE OR REFER TO A MEASUREMENT OF FORWARD BIAS RESISTANCE. | 33 | 91 | 31 | 6 | | | |
| 6 367 61-12 DO YOU USE OR REFER TO DIODE COLOR CODING. | 24 | 19 | 28 | 13 | | | |
| 6 368 61-13 DO YOU USE OR REFER TO CENTRIFUGAL FORCE OF AN ELECTRON IN ORBIT AROUND A NUCLEUS. | 0 | 0 | 0 | 0 | | | |
| 6 369 61-14 DO YOU USE OR REFER TO CENTRIPETAL FORCE OF AN ELECTRON IN ORBIT AROUND A NUCLEUS. | 0 | 0 | 0 | 0 | | | |
| 6 370 61-15 DO YOU USE OR REFER TO DIODE NUMBERING SYSTEM, SUCH AS IN S38. | 36 | 74 | 35 | 19 | | | |
| 6 371 61-16 DO YOU USE OR REFER TO KINETIC ENERGY OF AN ELECTRON MOVING IN ORBIT. | 0 | 0 | 0 | 0 | | | |
| 6 372 61-17 DO YOU USE OR REFER TO POTENTIAL ENERGY OF AN ELECTRON MOVING IN ORBIT. | 0 | 0 | 0 | 0 | | | |
| 6 373 61-18 DO YOU USE OR REFER TO A MEASUREMENT OR REVERSE BIAS RESISTANCE. | 32 | 36 | 36 | 13 | | | |
| 6 374 61-19 DO YOU USE OR REFER TO NUMBER OF ELECTRONS IN A PARTICULAR SHELL OR ORBIT. | 1 | 0 | 2 | 0 | | | |
| 6 375 61-20 DO YOU USE OR REFER TO PERMISSIBLE ENERGY LEVELS OF AN ORBITING ELECTRON. | 0 | 0 | 0 | 0 | | | |
| 6 376 61-21 DO YOU USE OR REFER TO FORBIDDEN ENERGY LEVELS OF AN ORBITING ELECTRON. | 0 | 0 | 0 | 0 | | | |
| 6 377 61-22 DO YOU USE OR REFER TO VALENCE ELECTRONS (THOSE IN THE OUTERMOST SHELL). | 2 | 0 | 3 | 0 | | | |
| 6 378 61-23 DO YOU USE OR REFER TO ATOMIC NURBEN TOTAL NUMBER OF ELECTRONS IN ATOM. | 2 | 0 | 3 | 0 | | | |
| 6 379 61-24 DO YOU USE OR REFER TO SYMBOLS ON THE DIODE WHICH INDICATE THE CATHODE END. | 39 | 36 | 33 | 26 | | | |
| 6 380 61-25 DO YOU NEED TO KNOW WHICH MATERIALS ARE USED IN THE CONSTRUCTION OF DIODES, SUCH AS GERMANIUM OR SEMICONDUCTORS HAVE NEGATIVE TEMPERATURE COEFFICIENTS. | 17 | 16 | 16 | 13 | | | |
| 6 381 61-26 DO YOU DETERMINE WHETHER A PN JUNCTION DIODE IS FORWARD BIASED OR REVERSE BIASED WHEN YOU READ OR SEMICONDUCTOR MATERIALS. | 72 | 25 | 21 | 7 | | | |
| 6 382 61-27 DO YOU USE OR REFER TO VALENCE BAND IN SEMICONDUCTOR MATERIALS. | 10 | 3 | 14 | 6 | | | |
| 6 383 61-28 DO YOU USE OR REFER TO FORBIDDEN BAND IN SEMICONDUCTOR MATERIALS. | 38 | 97 | 37 | 6 | | | |
| 6 384 61-29 DO YOU USE OR REFER TO CONDUCTION BAND IN SEMICONDUCTOR MATERIALS. | 1 | 0 | 2 | 0 | | | |

INSTITUTE OF ECONOMICS.

... PRACTICALLY AND PRACTICALLY - 1912-1913

THE MUSEUM OF NATURAL HISTORY - NEW YORK

MONTE CARLO - TRANSISTORS

• 1980-81 • 1981-82 • 1982-83 • 1983-84 • 1984-85 • 1985-86 • 1986-87 • 1987-88 • 1988-89 • 1989-90 • 1990-91 • 1991-92 • 1992-93 • 1993-94 • 1994-95 • 1995-96 • 1996-97 • 1997-98 • 1998-99 • 1999-2000 • 2000-01 • 2001-02 • 2002-03 • 2003-04 • 2004-05 • 2005-06 • 2006-07 • 2007-08 • 2008-09 • 2009-10 • 2010-11 • 2011-12 • 2012-13 • 2013-14 • 2014-15 • 2015-16 • 2016-17 • 2017-18 • 2018-19 • 2019-20 • 2020-21

6 005 61-50 00 100 050 08 REEDS IN THE WOODS
6 005 61-50 00 100 050 08 REEDS IN THE WOODS

6 04 09-19 DO YOU SEE ME MAXIMUS
6 04 09-19 DO YOU SEE ME MAXIMUS

9 402-614-9130 YOU USE OR REFER TO THE PEAK RECEIVING LINE NUMBER.

9 402 0-47 00 100 050 30 0220 10 100 MAXIMUM AVERAGE.

6 4 10 6-19 94 0 10 0 USE ON MEERA TO 0100E SUBSTITUTION

400-61-45 DO YOU USE OR REFER TO BARRIER HEIGHT IN
MANUFACTURING WORK STATION?

9 663 19-19 44-00 000 USE OR REPAIR 10 10 10 10 10 BACK TO FWDN

6 386 9-14-3 DO YOU USE OR RECREATE TO MEDIATE DISPUTES BETWEEN
PROFESSIONALS?

6 163 9-26-19 DEPARTMENT OF DEFENSE TO EXPERTS IN
- INTELLIGENCE COMMUNICATIONS.

SEMINAR OUTINGS. — **MEET A TO YOU USE ON MEET A TO JUNCTION RECUMBENT**

MEMPHIS 5-1180 OR RIVERFRONT 5-1180 USE OUR PREFERRED MINORITY CARRIERS IN
TRANSPORTATION.

THE MANUFACTURER OF THE
WORLD'S FINEST CLOTHING.

STATEMENT OF CLAIMS. **STATEMENT OF DEFENSE.**

G 349 6-1-34 00 100 USE OF METER

G-300 G-323 DO YOU USE OR REUSE IN SEMICONDUCTORS?

6 20-11-19 7
6 20-11-19 80 YOU TO THE OF REFER TO COUNCIL SODIUM IN
6 20-11-19 80 YOU TO THE OF REFER TO COUNCIL SODIUM IN

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TASK GROUP SUMMARY

PCI MEDIUM PERFORMANCE OUTLINES/TASKS IN BASIC 669

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PCT MARS PAGING DUTIES/TASKS BY DAFSC GPS

EPSON PAGE 19

TASK GROUP SUMMARY
PERCENT HOURS PERFORMING

308X0 30830 30870 32390

| Dy-TSK | SPC | | | |
|--|-----|-----|-----|-----|
| | 001 | 002 | 003 | 004 |
| 6 413 62-08 DO YOU USE OR REFER TO HOW DIASING AFFECTS THE PHYSICAL BARRIER WIDTH OF THE Emitter - BASE JUNCTION. | 10 | 12 | 11 | 0 |
| 6 414 62-09 DO YOU USE OR REFER TO HOW DIASING AFFECTS THE PHYSICAL BARRIER WIDTH OF THE COLLECTOR - BASE JUNCTION. | 0 | 9 | 0 | 0 |
| 6 415 62-10 DO YOU USE OR REFER TO THE PHYSICAL SIZE OF THE TRANSISTOR STRUCTURE (COLLECTION, BASE AND Emitter). | 16 | 19 | 17 | 0 |
| 6 416 62-11 DO YOU USE OR REFER TO LEAKAGE CURRENT (ICBO) IN A TRANSISTOR. | 7 | 3 | 10 | 0 |
| 6 417 62-12 DO YOU USE OR REFER TO TRANSISTOR SCHEMATIC SYMBOLS. | 45 | 55 | 92 | 19 |
| 6 418 62-13 DO YOU USE OR REFER TO TRANSISTOR NOTATIONS, SUCH AS Q1, Q2, Q3, ETC. | 46 | 57 | 93 | 19 |
| 6 419 62-14 DO YOU USE OR REFER TO TRANSISTOR SUBSTITUTION INFORMATION. | 24 | 40 | 34 | 19 |
| 6 420 62-15 DO YOU USE OR REFER TO THE GENERAL RULE THAT THE TRANSISTOR BASE CURRENT IS NORMALLY SIGNIFICANTLY GREATER THAN THE INFORMATION THAT THE EFFECT OF Emitter BASE VOLTAGE ON BASE CURRENT IS THE SAME. | 14 | 19 | 19 | 0 |
| 6 421 62-16 DO YOU USE THE INFORMATION THAT THE EFFECT OF Emitter BASE VOLTAGE ON BASE CURRENT IS THE SAME. | 25 | 26 | 25 | 13 |
| 6 422 62-17 DO YOU USE THE GENERAL RULE THAT LEAKAGE CURRENT IS DUE IN A TRANSISTOR TRACES AS TEMPERATURE CURVES? | 13 | 10 | 15 | 0 |
| 6 423 62-18 DO YOU USE OR REFER TO TRANSISTOR CHARACTERISTIC CURVES? | 7 | 2 | 10 | 0 |
| 6 424 62-19 DO YOU USE OR REFER TO THE BETA TRANSISTOR GAINS? | 9 | 3 | 12 | 0 |
| 6 425 62-20 DO YOU USE OR REFER TO THE ALPHA TRANSISTOR GAINS? | 8 | 3 | 8 | 0 |
| 6 426 62-21 DO YOU USE OR REFER TO THE GAMMA TRANSISTOR GAINS? | 4 | 2 | 5 | 0 |
| 6 427 62-22 DO YOU CALCULATE THE BETA TRANSISTOR GAINS? | 2 | 0 | 2 | 0 |
| 6 428 62-23 DO YOU CALCULATE THE ALPHA TRANSISTOR GAINS? | 2 | 2 | 0 | 0 |
| 6 429 62-24 DO YOU CALCULATE THE GAMMA TRANSISTOR GAINS? | 1 | 0 | 0 | 0 |
| 6 430 62-25 DO YOU WORK WITH TRANSISTOR AMPLIFIERS IN YOUR PRESENT JOB? | 44 | 57 | 40 | 13 |
| 6 431 63-02 DO YOU INSPECT TRANSISTER AMPLIFIERS. | 37 | 50 | 32 | 12 |
| 6 432 63-03 DO YOU ALIGN OR ADJUST TRANSISTOR AMPLIFIERS. | 32 | 41 | 30 | 0 |
| 6 433 63-04 DO YOU TROUBLESHOOT TO THE TRANSISTOR AMPLIFIER CIRCUIT LEVEL. | 31 | 43 | 27 | 0 |
| 6 434 63-05 DO YOU TROUBLESHOOT TO COMPONENT PARTS OF TRANSISTOR AMPLIFIERS. | 37 | 46 | 34 | 0 |
| 6 435 63-06 DO YOU REMOVE OR REPLACE THE COMPLETE TRANSISTOR AMPLIFIERS. | 27 | 41 | 21 | 0 |
| 6 436 63-07 DO YOU REMOVE OR REPLACE TRANSISTOR AMPLIFIER COMPONENT PARTS. | 35 | 48 | 31 | 0 |
| 6 437 63-08 DO YOU USE OR REFER TO COMMON Emitter) THE CHANGE IN COLLECTOR CURRENT WHICH RESULTS FROM A CHANGE IN | 21 | 21 | 22 | 0 |

SPC 500-1

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C-119 63-10 DO YOU USE OR REFER TO (COMMON Emitter) THE CHANGE IN COLLECTOR VOLTAGE WHICH RESULTS FROM A CHANGE IN
CALCULATIONS NECESSARY TO MEASURE THE SPECIFIC CHANGE

C-120 63-11 DO YOU USE OR REFER TO (COMMON Emitter) THE
CALCULATIONS NECESSARY TO MEASURE THE SPECIFIC CHANGE
IN BIAS CURRENT WHICH RESULTS FROM AN INPUT SIGNAL.

C-121 63-12 DO YOU USE OR REFER TO (COMMON Emitter) THE
CALCULATIONS NECESSARY TO MEASURE THE SPECIFIC CHANGE
IN YOUR CIRCUIT ANALYSIS OF THE COMMON Emitter.

C-122 63-13 DO YOU USE OR REFER TO (COMMON Emitter) THE
CALCULATIONS NECESSARY TO MEASURE THE SPECIFIC CHANGE

DO YOU USE THE LOAD-LINE METHOD OF ANALYSIS THIS
G-494 G-15 DO YOU USE ON REFER TO THE OPERATING POINT AS
THE QUICKEST POINT FOR A TRANSISTOR.
G-495 G-16 DO YOU CALCULATE THE SPECIFIC QUIESCENT POINT FOR
PARTICULAR TRANSISTORS?

G 446 G-3-17 DO YOU MEASURE VOLTAGE GAIN (COMMON Emitter)?
 G 447 G-3-18 DO YOU MEASURE CURRENT GAIN (COMMON Emitter)?
 G 448 G-3-19 DO YOU MEASURE POWER GAIN (COMMON Emitter)?
 G 449 G-3-20 DO YOU CALCULATE THE VOLTAGE GAIN FOR A SPECIFIC TRANSISTOR USING A FORMULA? THAT IS, DO YOU MEASURE VOLTAGE GAIN FOR A SPECIFIC TRANSISTOR USING A FORMULA? THAT IS, DO YOU MEASURE CURRENT GAIN FOR A SPECIFIC TRANSISTOR USING A FORMULA? THAT IS, DO YOU MEASURE POWER GAIN FOR A SPECIFIC TRANSISTOR USING A FORMULA? THAT IS, DO YOU MULTIPLY VOLTAGE GAIN BY CURRENT GAIN TO GET POWER GAIN?
 G 450 G-3-21 DO YOU CALCULATE THE CURRENT GAIN FOR A SPECIFIC TRANSISTOR USING A FORMULA? THAT IS, DO YOU MEASURE CURRENT GAIN FOR A SPECIFIC TRANSISTOR USING A FORMULA? THAT IS, DO YOU MEASURE POWER GAIN FOR A SPECIFIC TRANSISTOR USING A FORMULA? THAT IS, DO YOU MULTIPLY VOLTAGE GAIN BY CURRENT GAIN TO GET POWER GAIN?
 G 452 G-3-23 DO YOU NEED TO KNOW THAT HOME COLLECTOR CURRENT IS GENERATED WITH LESS COLLECTOR VOLTAGE AS A TRANSISTOR OPERATES AT DIFFERENT TEMPERATURES?
 G 453 G-3-24 DO YOU COMPUTE THE STATIC OPERATING POINT (Q) OF

6 154 63-25 DO YOU IDENTIFY ON SCHEMATIC DIAGRAMS AND RELATE
TO THE ACTUAL CIRCUITY THE COMPONENTS ASSOCIATED
WITH THESE CIRCUITS?
6 155 63-26 DO YOU IDENTIFY ON SCHEMATIC DIAGRAMS AND RELATE
TO THE ACTUAL CIRCUIT THE COMPONENTS ASSOCIATED
WITH THESE CIRCUITS?
6 156 63-27 DO YOU IDENTIFY ON SCHEMATIC DIAGRAMS AND RELATE
TO THE ACTUAL CIRCUITY THE COMPONENTS ASSOCIATED
WITH THESE CIRCUITS?
6 157 63-28 DO YOU IDENTIFY ON SCHEMATIC DIAGRAMS AND RELATE
TO THE ACTUAL CIRCUIT THE COMPONENTS ASSOCIATED
WITH THESE CIRCUITS?
6 158 63-29 DO YOU IDENTIFY ON SCHEMATIC DIAGRAMS AND RELATE
TO THE ACTUAL CIRCUITY THE COMPONENTS ASSOCIATED
WITH THESE CIRCUITS?
6 159 63-30 DO YOU IDENTIFY ON SCHEMATIC DIAGRAMS AND RELATE
TO THE ACTUAL CIRCUIT THE COMPONENTS ASSOCIATED
WITH THESE CIRCUITS?
6 160 63-31 DO YOU TROUBLESHOOT CIRCUITS WHICH HAVE COMPONENTS
WHICH PERFORM THE EMITTER ISWAMPING RESISTOR
FUNCTION?
6 161 63-32 DO YOU TROUBLESHOOT CIRCUITS WHICH HAVE COMPONENTS
WHICH PERFORM THE SELF-SAMPLING STABILIZATION
FUNCTION?
6 162 63-33 DO YOU TROUBLESHOOT CIRCUITS WHICH HAVE COMPONENTS
WHICH PERFORM THE FEEDBACK STABILIZATION
FUNCTION?
6 163 63-34 DO YOU TROUBLESHOOT CIRCUITS WHICH HAVE COMPONENTS
WHICH PERFORM THE FREQUENCY DISTORTION FOR
TRANSMITTER CIRCUITS?
6 164 63-35 DO YOU TROUBLESHOOT TRANSISTOR CIRCUITS TO FIND
THE CAUSE OF AMPLITUDE DISTORTION?
6 165 63-36 DO YOU TROUBLESHOOT TRANSISTOR CIRCUITS TO FIND
THE CAUSE OF FREQUENCY DISTORTION?
6 166 63-37 DO YOU TROUBLESHOOT TRANSISTOR CIRCUITS TO FIND
THE PHASE DISTORTION?
6 167 63-38 DO YOU TROUBLESHOOT TRANSISTOR CIRCUITS TO FIND
THE CAUSE OF AMPLITUDE DISTORTION?
6 168 63-39 DO YOU TROUBLESHOOT TRANSISTOR CIRCUITS TO FIND
THE PHASE DISTORTION?

| | SPC
001 | SPC
002 | SPC
003 | SPC
004 |
|---|------------|------------|------------|------------|
| 6 459 63-25 DO YOU IDENTIFY ON SCHEMATIC DIAGRAMS AND RELATE TO THE ACTUAL CIRCUITY THE COMPONENTS ASSOCIATED | 25 | 29 | 29 | ♦ |
| 6 455 63-26 DO YOU IDENTIFY ON SCHEMATIC DIAGRAMS AND RELATE TO THE ACTUAL CIRCUITY THE COMPONENTS ASSOCIATED | 21 | 22 | 42 | ♦ |
| 6 456 63-27 DO YOU IDENTIFY ON SCHEMATIC DIAGRAMS AND RELATE TO THE ACTUAL CIRCUITY THE COMPONENTS ASSOCIATED | 21 | 19 | 23 | ♦ |
| 6 457 63-28 DO YOU IDENTIFY ON SCHEMATIC DIAGRAMS AND RELATE TO THE ACTUAL CIRCUITY THE COMPONENTS ASSOCIATED | 22 | 22 | 23 | ♦ |
| 6 458 63-29 DO YOU IDENTIFY ON SCHEMATIC DIAGRAMS AND RELATE TO THE ACTUAL CIRCUITY THE COMPONENTS ASSOCIATED | 21 | 21 | 23 | ♦ |
| 6 459 63-30 DO YOU IDENTIFY ON SCHEMATIC DIAGRAMS AND RELATE TO THE ACTUAL CIRCUITY THE COMPONENTS ASSOCIATED | 18 | 19 | 19 | ♦ |
| 6 460 63-31 DO YOU TROUBLESHOOT CIRCUITS WHICH HAVE COMPONENTS WHICH PERFORM THE Emitter SWAPPING FUNCTION FOR FORWARD BIAS STABILIZATION | 24 | 24 | 24 | 0 |
| 6 461 63-32 DO YOU TROUBLESHOOT CIRCUITS WHICH HAVE COMPONENTS WHICH PERFORM THE SELF BIAS STABILIZATION FUNCTIONS | 21 | 21 | 23 | 0 |
| 6 462 63-33 DO YOU TROUBLESHOOT CIRCUITS WHICH HAVE COMPONENTS WHICH PERFORM THE TRANSISTOR STABILIZATION FUNCTIONS | 19 | 17 | 22 | 0 |
| 6 463 63-34 DO YOU TROUBLESHOOT CIRCUITS WHICH HAVE COMPONENTS WHICH PERFORM THE FORWARD BIAS DIODE STABILIZATION | 21 | 22 | 22 | 0 |
| 6 464 63-35 DO YOU TROUBLESHOOT CIRCUITS WHICH HAVE COMPONENTS WHICH PERFORM THE REVERSE BIAS DIODE STABILIZATION | 22 | 24 | 23 | 0 |
| 6 465 63-36 DO YOU TROUBLESHOOT CIRCUITS WHICH HAVE COMPONENTS WHICH PERFORM THE DOUBLE DIODE STABILIZATION FUNCTIONS | 17 | 16 | 19 | 0 |
| 6 466 63-37 DO YOU IDENTIFY AMPLITUDE DISTORTION FOR TRANSISTOR CIRCUITS TO FIND THE CAUSE OF AMPLITUDE DISTORTION. | 30 | 33 | 31 | ♦ |
| 6 467 63-38 DO YOU TROUBLESHOOT TRANSISTOR CIRCUITS TO FIND THE CAUSE OF PHASE DISTORTION. | 29 | 34 | 29 | 0 |
| 6 468 63-39 DO YOU IDENTIFY FREQUENCY DISTORTION FOR TRANSISTOR CIRCUITS | 25 | 29 | 25 | ♦ |
| 6 469 63-40 DO YOU TROUBLESHOOT TRANSISTOR CIRCUITS TO FIND THE CAUSE OF AMPLITUDE DISTORTION. | 26 | 33 | 24 | 0 |
| 6 470 63-41 DO YOU IDENTIFY PHASE DISTORTION FOR TRANSISTOR CIRCUITS | 16 | 16 | 22 | 0 |
| 6 471 63-42 DO YOU TROUBLESHOOT TRANSISTOR CIRCUITS TO FIND THE CAUSES OF PHASE DISTORTION. | 17 | 16 | 21 | 0 |
| 6 472 63-43 DO YOU IDENTIFY AMPLITUDE DISTORTION FOR | 29 | 31 | 30 | ♦ |

PCU WORKS PERFORMING DUTIES/TASKS BY DAYSC GPS
TASK GROUP SUMMARY
PERCENT MEMBERS PERFORMING

GROUP 3 PAGE 22

308X0 30830 30870 30890

| DAY-TASK | SPC 001 | SPC 002 | SPC 003 | SPC 004 | |
|--|---------|---------|---------|---------|---|
| G 973 G3-49 DO YOU TROUBLESHOOT TRANSISTOR CIRCUITS TO FIND THE CAUSE OF AMPLITUDE DISTORTION. | 26 | 29 | 28 | 0 | |
| G 974 G3-45 DO YOU IDENTIFY FREQUENCY DISTORTION FOR TRANSISTOR CIRCUITS. | 22 | 21 | 24 | 0 | |
| G 975 G3-46 DO YOU TROUBLESHOOT TRANSISTOR CIRCUITS TO FIND THE CAUSES FREQUENCY DISTORTION FOR TRANSISTOR CIRCUITS. | 21 | 19 | 25 | 0 | |
| G 976 G3-47 DO YOU IDENTIFY PHASE DISTORTION FOR TRANSISTOR CIRCUITS. | 17 | 16 | 20 | 0 | |
| G 977 G3-48 DO YOU TROUBLESHOOT TRANSISTOR CIRCUITS TO FIND THE CAUSES OF PHASE DISTORTION. | 16 | 14 | 20 | 0 | |
| G 978 G3-49 THIS QUESTION REFERS TO A TRANSISTOR AMPLIFIER IN THE COMMON COLLECTOR CONFIGURATION. DO YOU NEED TO | 10 | 7 | 11 | 0 | |
| G 979 G3-50 DO YOU DETERMINE THE CLASS OF OPERATION FOR AMPLIFIERS IN ORDER TO TROUBLESHOOT AMPLIFIER CIRCUITS. | 11 | 9 | 13 | 0 | |
| G 980 G3-51 DO YOU TROUBLESHOOT OR REPAIR PARAPHASE AMPLIFIERS CIRCUITS. | 16 | 16 | 19 | 0 | |
| G 981 G3-52 DO YOU TROUBLESHOOT OR REPAIR PUSH-PULL AMPLIFIERS CIRCUITS. | 26 | 36 | 27 | 0 | |
| G 982 G3-53 DO YOU TROUBLESHOOT OR REPAIR COMPLEMENTARY SYMMETRICAL CIRCUITS. | 31 | 22 | 22 | 0 | |
| G 983 G3-54 DO YOU TROUBLESHOOT OR REPAIR COMPOUNDED-CONNECTED AMPLIFIERS CIRCUITS. | 15 | 12 | 19 | 0 | |
| G 984 G3-55 DO YOU TROUBLESHOOT OR REPAIR CASCADE CONNECTED AMPLIFIERS CIRCUITS. | 28 | 33 | 26 | 0 | |
| H 985 H1-01 DO YOU USE OR REFER TO VACUUMS. | 92 | 91 | 93 | 91 | |
| H 986 H1-02 DO YOU USE OR REFER TO TUNNEL DIODES. | 34 | 33 | 37 | 19 | |
| H 987 H1-03 DO YOU USE OR REFER TO FIELD EFFECT TRANSISTORS (FET'S). | 93 | 43 | 46 | 13 | MODULE 33 - SELECTED SOLID STATE DEVICES |
| H 988 H1-04 DO YOU USE OR REFER TO UNIJUNCTION TRANSISTORS. | 35 | 33 | 39 | 13 | |
| H 989 H1-05 DO YOU USE OR REFER TO ZENER DIODES. | 57 | 59 | 46 | 35 | |
| H 990 H1-06 DO YOU USE OR REFER TO INTERGRATED CIRCUITS. | 53 | 57 | 53 | 38 | |
| H 991 H2-01 ON YOUR PRESENT JOB, DO YOU WORK WITH POWER SUPPLIES. | 49 | 62 | 94 | 31 | |
| H 992 H2-02 DO YOU INSPECT POWER SUPPLIES. | 91 | 93 | 97 | 19 | |
| H 993 H2-03 DO YOU CLEAN POWER SUPPLIES. | 36 | 53 | 30 | 0 | |
| H 994 H2-04 DO YOU ADJUST POWER SUPPLIES. | 36 | 53 | 33 | 6 | |
| H 995 H2-05 DO YOU TROUBLESHOOT TO THE POWER SUPPLY CIRCUIT. | 26 | 50 | 30 | 19 | MODULE 34 - SOLID STATE POWER SUPPLY RECTIFIERS AND FILTERS |
| H 996 H2-06 DO YOU TROUBLESHOOT TO COMPONENT PARTS OF POWER SUPPLIES. | 37 | 46 | 34 | 13 | |
| H 997 H2-07 DO YOU REMOVE OR REPLACE THE COMPLETE POWER SUPPLIES. | 33 | 48 | 27 | 4 | MODULE 35 - SOLID STATE POWER SUPPLY REGULATIONS |
| H 998 H2-08 DO YOU REMOVE OR REPLACE POWER SUPPLY PARTS. | 36 | 47 | 32 | 19 | |
| H 999 H2-09 DO YOU WORK WITH HALF-WAVE RECTIFIERS. | 39 | 95 | 39 | 6 | |
| H 1000 H2-10 DO YOU WORK WITH FULL-WAVE RECTIFIERS OTHER THAN BRIDGE RECTIFIERS. | 41 | 50 | 40 | 6 | |

PCT MEMS PRACTICING DUTIES/TASKS BY DATES/SPS

TASK GROUP SUMMARY
PERCENT MEMBERS PERFORMING

CPSUNJ PAGE 24

33EX0 30830 30870 30890

DUTIES

| | SPC 001 | SPC 002 | SPC 003 | SPC 004 | SPC 005 | SPC 006 | SPC 007 | SPC 008 | SPC 009 |
|--|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| H 501 H2-11 DO YOU WORK WITH UNIDIR RECTIFIERS. | 43 | 33 | 49 | 13 | 21 | 29 | 22 | 10 | 13 |
| H 502 H2-12 DO YOU WORK WITH THREE PHASE RECTIFIERS. | 43 | 33 | 49 | 13 | 21 | 29 | 22 | 10 | 13 |
| H 503 H2-13 DO YOU USE OR REFER TO INPUT VOLTAGE. | 43 | 33 | 49 | 13 | 21 | 29 | 22 | 10 | 13 |
| H 504 H2-14 DO YOU USE OR REFER TO INPUT FREQUENCY. | 43 | 33 | 49 | 13 | 21 | 29 | 22 | 10 | 13 |
| H 505 H2-15 DO YOU USE OR REFER TO PEAK OUTPUT VOLTAGE. | 43 | 33 | 49 | 13 | 21 | 29 | 22 | 10 | 13 |
| H 506 H2-16 DO YOU USE OR REFER TO AVERAGE OUTPUT VOLTAGE. | 43 | 33 | 49 | 13 | 21 | 29 | 22 | 10 | 13 |
| H 507 H2-17 DO YOU USE OR REFER TO RIPPLE AMPLITUDE. | 43 | 33 | 49 | 13 | 21 | 29 | 22 | 10 | 13 |
| H 508 H2-18 DO YOU USE OR REFER TO RIPPLE FREQUENCY. | 43 | 33 | 49 | 13 | 21 | 29 | 22 | 10 | 13 |
| H 509 H2-19 DO YOU USE OR REFER TO PEAK REVERSE (INVERSE) VOLTAGE. | 43 | 33 | 49 | 13 | 21 | 29 | 22 | 10 | 13 |
| H 510 H2-20 DO YOU USE OR REFER TO SHAPE OF THE OUTPUT WAVEFORM. | 36 | 43 | 34 | 19 | 36 | 40 | 34 | 19 | 19 |
| H 511 H2-21 DO YOU USE OR REFER TO EFFECTIVE OUTPUT VOLTAGE. | 36 | 40 | 34 | 13 | 36 | 40 | 34 | 13 | 13 |
| H 512 H2-22 DO YOU WORK WITH CIRCUITS WHICH EMPLOY CAPACITIVE FILTERS. | 36 | 38 | 35 | 13 | 36 | 38 | 35 | 13 | 13 |
| H 513 H2-23 DO YOU WORK WITH CIRCUITS WHICH EMPLOY INDUCTIVE FILTERS. | 29 | 28 | 31 | 13 | 29 | 28 | 31 | 13 | 13 |
| H 514 H2-24 DO YOU WORK WITH CIRCUITS WHICH EMPLOY CAPACITIVE INPUT L-TYPE FILTERS. | 29 | 28 | 31 | 13 | 29 | 28 | 31 | 13 | 13 |
| H 515 H2-25 DO YOU WORK WITH CIRCUITS WHICH EMPLOY INDUCTIVE INPUT L-TYPE FILTERS. | 29 | 28 | 31 | 13 | 29 | 28 | 31 | 13 | 13 |
| H 516 H2-26 DO YOU WORK WITH CIRCUITS WHICH EMPLOY LC PI-TYPE FILTERS. | 27 | 29 | 27 | 13 | 27 | 29 | 27 | 13 | 13 |
| H 517 H2-27 DO YOU WORK WITH CIRCUITS WHICH EMPLOY NC PI-TYPE FILTERS. | 26 | 26 | 29 | 13 | 26 | 26 | 29 | 13 | 13 |
| H 518 H2-28 DO YOU WORK WITH CIRCUITS WHICH EMPLOY DON'T REMEMBER WHICH TYPE OF FILTER. | 16 | 33 | 7 | 6 | 16 | 33 | 7 | 6 | 6 |
| H 519 H2-29 DO YOU HAVE THE OPTION OF REPLACING ONE TYPE OF FILTER WITH A DIFFERENT TYPE & FILTER. | 5 | 2 | 7 | 0 | 5 | 2 | 7 | 0 | 0 |
| H 520 H2-30 DO YOU WORK WITH OSCILLATORS ON YOUR PRESENT JOB. | 44 | 53 | 41 | 25 | 44 | 53 | 41 | 25 | 25 |
| H 521 H3-02 DO YOU INSPECT OSCILLATORS. | 37 | 48 | 32 | 19 | 37 | 48 | 32 | 19 | 19 |
| H 522 H3-03 DO YOU ALIGN OR ADJUST OSCILLATORS. | 24 | 45 | 32 | 6 | 24 | 45 | 32 | 6 | 6 |
| H 523 H3-04 DO YOU REMOVE OR REPLACE THE COMPLETE OSCILLATORS CIRCUIT. | 30 | 45 | 25 | 0 | 30 | 45 | 25 | 0 | 0 |
| H 524 H3-05 DO YOU REMOVE OR REPLACE COMPONENT PARTS OF OSCILLATORS. | 32 | 45 | 29 | 3 | 32 | 45 | 29 | 3 | 3 |
| H 525 H3-06 DO YOU TROUBLESHOOT TO THE OSCILLATORS CIRCUIT LEVEL. | 32 | 47 | 26 | 0 | 32 | 43 | 29 | 0 | 0 |
| H 526 H3-07 DO YOU TROUBLESHOOT TO OSCILLATORS COMPONENTS. | 32 | 43 | 29 | 0 | 32 | 43 | 29 | 0 | 0 |
| H 527 H3-08 DO YOU USE OR REFER TO FEEDBACK. | 26 | 45 | 35 | 0 | 26 | 45 | 35 | 0 | 0 |
| H 528 H3-09 DO YOU USE OR REFER TO FREQUENCY VEGETATING DEVICES (FDD). | 31 | 38 | 30 | 0 | 31 | 38 | 30 | 0 | 0 |
| H 529 H3-10 DO YOU USE OR REFER TO AMPLITUDE STABILITY. | 26 | 24 | 29 | 13 | 26 | 24 | 29 | 13 | 13 |
| H 530 H3-11 DO YOU USE OR REFER TO FREQUENCY STABILITY. | 34 | 35 | 36 | 13 | 34 | 35 | 36 | 13 | 13 |
| H 531 H3-12 DO YOU USE OR REFER TO DAMPING. | 29 | 16 | 43 | 6 | 29 | 16 | 43 | 6 | 6 |
| H 532 H3-13 DO YOU USE OR REFER TO REGENERATIVE FEEDBACK. | 32 | 38 | 31 | 6 | 32 | 38 | 31 | 6 | 6 |

PCT MEMS PRMNG DUTIES/TASKS BY DAFSC GPS
TASK GROUP SUMMARY
PERCENT MEMBERS PERFORMING

CPSUM3 PAGE - 24

308XC 30830 30870 3233C

DYNAMIC

| | SPC 001 | SPC 002 | SPC 003 | SPC 004 |
|--|---------|---------|---------|---------|
| H 533 M3-19 DO YOU USE OR REFER TO PIEZOELECTRIC EFFECT. | 11 | 16 | 9 | 0 |
| H 534 M3-15 DO YOU USE OR REFER TO CRITICAL DAMPING. | 10 | 9 | 11 | 0 |
| H 535 M3-16 DO YOU USE OR REFER TO UNDER DAMPING. | 9 | 7 | 11 | 0 |
| H 536 M3-17 DO YOU USE OR REFER TO OVER DAMPING. | 10 | 7 | 12 | 0 |
| H 537 M3-18 DO OSCILLATORS YOU WORK WITH USE LC TANK CIRCUITS AS FOO. | 24 | 31 | 29 | 4 |
| H 538 M3-19 DO OSCILLATORS YOU WORK WITH USE HC NETWORKS AS FOO. | 26 | 26 | 26 | 4 |
| H 539 M3-20 DO OSCILLATORS YOU WORK WITH USE CRYSTALS AS FOO. | 34 | 34 | 35 | 19 |
| H 540 M3-21 DO OSCILLATORS YOU WORK WITH USE DON'T REMEMBER WHICH TYPE AS FOO. | 6 | 19 | 2 | 6 |
| H 541 M3-22 DO YOU WORK WITH SERIES HARTLEY SINUSOIDAL OSCILLATORS. | 11 | 5 | 13 | 13 |
| H 542 M3-23 DO YOU WORK WITH SHUNT HARTLEY SINUSOIDAL OSCILLATORS. | 10 | 7 | 11 | 13 |
| H 543 M3-24 DO YOU WORK WITH COLPITTS SINUSOIDAL OSCILLATORS. | 14 | 9 | 14 | 13 |
| H 544 M3-25 DO YOU WORK WITH CLAPP SINUSOIDAL OSCILLATORS. | 7 | 7 | 8 | 0 |
| H 545 M3-26 DO YOU WORK WITH BENTLEN SINUSOIDAL OSCILLATORS. | 6 | 2 | 7 | 6 |
| H 546 M3-27 DO YOU WORK WITH DON'T REMEMBER WHICH TYPE OF SINUSOIDAL OSCILLATORS. | 27 | 41 | 21 | 6 |
| T 547 TEST OUT DO YOU WORK WITH MULTIVIBRATORS ON YOUR PRESENT JOB. | 41 | 50 | 40 | 13 |
| T 548 11-02 DO YOU INSPECT WAVE SHAPING OR GENERATING CIRCUITS. | 30 | 36 | 30 | 6 |
| T 549 11-03 DO YOU ALIGN OR ADJUST WAVE SHAPING OR GENERATING CIRCUITS. | 25 | 31 | 26 | 0 |
| T 550 11-04 DO YOU CALIBRATE WAVE SHAPING OR GENERATING CIRCUITS. | 22 | 26 | 23 | 6 |
| I 551 11-05 DO YOU TROUBLESHOOT TO THE WAVE SHAPING OR GENERATING CIRCUITS. | 30 | 40 | 28 | 0 |
| I 552 11-06 DO YOU TROUBLESHOOT TO COMPONENTS WITHIN THE WAVE SWAPPING OR GENERATING CIRCUITS. | 29 | 36 | 28 | 0 |
| I 553 11-07 DO YOU REMOVE OR REPLACE COMPLETE DAVE SHAPING OR GENERATING CIRCUITS. | 28 | 36 | 26 | 0 |
| I 554 11-08 DO YOU REMOVE OR REPLACE COMPONENTS OF WAVE SHAPING OR GENERATING CIRCUITS. | 29 | 36 | 29 | 0 |
| I 555 11-09 DO YOU WORK WITH USE RC NETWORKS AS FOO. | 24 | 21 | 27 | 6 |
| I 556 11-10 DO OSCILLATORS YOU WORK WITH USE CRYSTALS AS FOO. | 30 | 33 | 32 | 6 |
| I 557 11-11 DO OSCILLATORS YOU WORK WITH USE DON'T REMEMBER WHICH TYPE AS FOO. | 6 | 14 | 2 | 0 |
| I 558 11-12 DO OSCILLATORS YOU WORK WITH USE DON'T REMEMBER WHICH TYPE AS FOO. | 30 | 36 | 30 | 6 |
| I 559 11-13 DO YOU WORK WITH ASTABLE MULTIVIBRATORS. | 33 | 38 | 34 | 7 |
| I 560 11-14 DO YOU WORK WITH HORSTABLE MULTIVIBRATORS. | 33 | 38 | 33 | 6 |
| I 561 11-15 DO YOU WORK WITH BISTABLE MULTIVIBRATORS. | 6 | 14 | 3 | 0 |
| I 562 11-16 DO YOU WORK WITH DON'T REMEMBER WHICH TYPE OF MULTIVIBRATORS. | 1 | 1 | 1 | 0 |

MODULE 47 - SOLIN STATE M-7

PCT. HRS. PERFC. DUTIES/TASKS BY DAFSC GPS
TASK GROUP SUMMARY
PERCENT MEMBERS PERFORMING

SPS

308X0 30830 30870 30890

QY-TSK

SPC SPC SPC SPC

001 002 003 004

| | | | | |
|---|----|----|----|----|
| 1 563 12-01 DO YOU WORK WITH LIMITERS OR CLAMPERS ON YOUR PRESENT JOB. | 35 | 40 | 36 | 6 |
| 1 564 12-02 DO YOU WORK WITH SERIES DIODE LIMITERS. | 22 | 19 | 27 | 0 |
| 1 565 12-03 DO YOU WORK WITH SHUNT DIODE LIMITERS. | 24 | 19 | 30 | 0 |
| 1 566 12-04 DO YOU WORK WITH LIMITERS WITH BIAS. | 14 | 16 | 20 | 0 |
| 1 567 12-05 DO YOU WORK WITH TENDER DIODE LIMITERS. | 24 | 26 | 32 | 0 |
| 1 568 12-06 DO YOU WORK WITH TRANSISTOR LIMITERS. | 24 | 21 | 31 | 0 |
| 1 569 12-07 DO YOU WORK WITH DON'T KNOW WHICH TYPE OF LIMITER. | 6 | 14 | 3 | 0 |
| 1 570 12-08 DO YOU WORK WITH DIODE CLAMPERS. | 24 | 21 | 29 | 0 |
| 1 571 12-09 DO YOU WORK WITH DIODE CLAMPERS WITH BIAS. | 19 | 21 | 19 | 0 |
| 1 572 12-10 DO YOU WORK WITH DON'T KNOW WHICH TYPE OF CLAMPER. | 9 | 19 | 5 | 0 |
| 1 573 12-07 FOR PURPOSES OF THIS QUESTION DO NOT CONSIDER WHICH FREQUENCY DEVICES, SUCH AS KLYSTOMS, TRAVELING WAVE VALVES, ETC., DO YOU CHECK ELECTRON TUBES TO SEE IF THEY ARE GOOD OR NOT. | 14 | 14 | 22 | 13 |
| 1 574 13-02 DO YOU CHECK ELECTRON TUBES TO SEE IF THEY ARE GOOD OR NOT. | 14 | 10 | 15 | 0 |
| 1 575 13-03 DO YOU CHECK ELECTRON TUBES TO SEE IF THEY ARE GOOD OR NOT USING TUBE TESTERS. | 11 | 7 | 11 | 0 |
| 1 576 13-04 DO YOU CHECK ELECTRON TUBES TO SEE IF THEY ARE GOOD OR NOT USING MULTIMETERS. | 9 | 5 | 3 | 0 |
| 1 577 13-05 DO YOU CHECK ELECTRON TUBES TO SEE IF THEY ARE GOOD OR NOT USING SCOPES. | 5 | 3 | 5 | 0 |
| 1 578 13-06 DO YOU CHECK ELECTRON TUBES TO SEE IF THEY ARE GOOD OR NOT USING SUBSTITUTION. | 12 | 10 | 12 | 13 |
| 1 579 13-07 DO YOU USE OR REFER TO CUTOFF. | 5 | 2 | 6 | 0 |
| 1 580 13-08 DO YOU USE OR REFER TO PEAK INVERSE VOLTAGE. | 2 | 2 | 2 | 0 |
| 1 581 13-09 DO YOU USE OR REFER TO PEAK CURRENT RATING. | 2 | 2 | 2 | 0 |
| 1 582 13-10 DO YOU USE OR REFER TO TRANSMIT TIME. | 1 | 0 | 1 | 0 |
| 1 583 13-11 DO YOU USE OR REFER TO PLATE DISSIPATION RATING. | 3 | 0 | 4 | 0 |
| 1 584 13-12 DO YOU USE OR REFER TO SATURATION. | 5 | 2 | 6 | 0 |
| 1 585 13-13 DO YOU USE OR REFER TO DC PLATE RESISTANCE. | 2 | 0 | 2 | 0 |
| 1 586 13-14 DO YOU COMPUTE THE ACTUAL VALUE OF THE DC PLATE RESISTANCE FOR ELECTRON TUNES. | 1 | 0 | 0 | 0 |
| 1 587 13-15 DO YOU USE OR REFER TO PLATE VOLTAGE. | 13 | 7 | 16 | 0 |
| 1 588 13-16 DO YOU USE OR REFER TO PLATE CURRENT. | 10 | 5 | 12 | 13 |
| 1 589 13-17 DO YOU USE OR REFER TO GRID VOLTAGE. | 14 | 7 | 17 | 13 |
| 1 590 13-18 DO YOU USE OR REFER TO GRID CURRENT. | 10 | 3 | 12 | 13 |
| 1 591 13-19 DO YOU USE OR REFER TO CATHODE VOLTAGE. | 13 | 9 | 14 | 13 |
| 1 592 13-20 DO YOU USE OR REFER TO CATHODE CURRENT. | 9 | 7 | 9 | 13 |
| 1 593 13-21 THE AMPLIFICATION FACTOR FOR TRIODES IS DEFINED AS THE RATIO OF CHANGE IN PLATE VOLTAGE TO A CHANGE IN AMPLIFICATION FACTOR. | 2 | 0 | 3 | 0 |
| 1 594 13-22 DO YOU CALCULATE THE ACTUAL VALUE OF THE TRIODE | 1 | 2 | 0 | 0 |

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3080A 32330 30870 2850

PC : HANES PARTS

PARTS GROUPS NUMBER SUMMARY

PERCENT HANES PARTS PREVIOUSLY

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| | SPC | | | | | | |
|---|---|---|---|---|---|---|---|
| | 001 | 002 | 003 | 004 | 005 | 006 | 007 |
| K 647 K1-02 DO YOU INSPECT AM SYSTEMS.
K 648 K1-03 DO YOU CLEAN AM SYSTEMS. | 14 | 10 | 18 | 13 | 13 | 16 | 13 |
| K 649 K1-04 DO YOU ALIGN OR ADJUST AM SYSTEMS.
K 650 K1-05 DO YOU TROUBLESHOOT TO AM SYSTEMS. | 14 | 12 | 18 | 13 | 13 | 16 | 13 |
| K 651 K1-06 DO YOU TROUBLESHOOT TO AM COMPONENTS.
K 652 K1-07 DO YOU REMOVE OR REPLACE AM SYSTEMS. | 14 | 12 | 16 | 13 | 13 | 16 | 13 |
| K 653 K1-08 DO YOU REMOVE OR REPLACE AM COMPONENTS.
K 654 K1-09 DO YOU PERFORM ANY TASKS ON RF OSCILLATORS. | 14 | 10 | 13 | 13 | 13 | 16 | 13 |
| K 655 K1-10 DO YOU PERFORM ANY TASKS ON RF AMPLIFIERS.
K 656 K1-11 DO YOU PERFORM ANY TASKS ON AUDIO AMPLIFIERS. | 14 | 12 | 10 | 17 | 13 | 11 | 13 |
| K 657 K1-12 DO YOU PERFORM ANY TASKS ON POWER AMPLIFIERS.
K 658 K1-13 DO YOU PERFORM ANY TASKS ON LOCAL OSCILLATORS. | 14 | 10 | 7 | 11 | 13 | 12 | 14 |
| K 659 K1-14 DO YOU PERFORM ANY TASKS ON AMPLIFIERS.
K 660 K1-15 DO YOU PERFORM ANY TASKS ON DETECTORS. | 14 | 12 | 14 | 16 | 14 | 16 | 14 |
| K 661 K1-16 DO YOU PERFORM ANY TASKS ON DETECTORS WHICH STAGE. | 14 | 12 | 17 | 16 | 14 | 16 | 14 |
| K 662 K1-17 DO YOU USE OR REFER TO AMPLITUDE STABILIZATION IN TRANSMITTERS. | 14 | 12 | 17 | 16 | 14 | 16 | 14 |
| K 663 K1-18 DO YOU USE OR REFER TO FREQUENCY STABILIZATION IN TRANSMITTERS. | 14 | 12 | 17 | 16 | 14 | 16 | 14 |
| K 664 K1-19 DO YOU USE OR REFER TO SENSITIVITY OF RECEIVERS.
K 665 K1-20 DO YOU USE OR REFER TO SELECTIVITY OF RECEIVERS. | 14 | 12 | 15 | 16 | 14 | 14 | 14 |
| K 666 K1-21 DO YOU USE OR REFER TO 2ND HARMONIC DISTORTION. | 14 | 14 | 14 | 14 | 14 | 14 | 14 |
| K 667 K1-22 DO YOU USE OR REFER TO BANDPASS DISTORTION. | 14 | 12 | 15 | 14 | 14 | 14 | 14 |
| X 668 K1-23 DO YOU USE OR REFER TO SQUARE LAW DISTORTION. | 14 | 12 | 7 | 6 | 14 | 14 | 14 |
| K 669 K1-24 DO YOU USE OR REFER TO CO-CHANNEL INTERFERENCE. | 14 | 12 | 7 | 6 | 14 | 14 | 14 |
| K 670 K1-25 DO YOU USE OR REFER TO IMAGE FREQUENCIES IN RECEIVERS. | 14 | 12 | 7 | 6 | 14 | 14 | 14 |
| K 671 K1-26 DO YOU USE OR REFER TO SIGNAL TO IMAGE RATIOS OR IMAGE REJECTION RATIOS. | 14 | 12 | 7 | 6 | 14 | 14 | 14 |
| K 672 K1-27 DO YOU TRACE SIGNALS OR CURRENT PATHS THROUGH AM TRANSMITTER SCHEMATIC DIAGRAMS. | 14 | 12 | 9 | 11 | 14 | 14 | 14 |
| K 673 K1-28 DO YOU TRACE SIGNALS OR CURRENT PATHS THROUGH AM RECEIVERS SCHEMATIC DIAGRAMS. | 14 | 12 | 5 | 17 | 14 | 14 | 14 |
| K 674 K2-01 DO YOU WORK WITH FM TRANSMIT OR RECEIVE SYSTEMS ON YOUR PRESENT JOB. | 35 | 36 | 36 | 19 | 35 | 36 | 19 |
| K 675 K2-02 DO YOU INSPECT FM SYSTEMS. | 29 | 32 | 29 | 4 | 25 | 31 | 29 |
| K 676 K2-03 DO YOU ALIGN FM SYSTEMS. | 25 | 31 | 25 | 4 | 26 | 33 | 25 |
| K 677 K2-04 DO YOU ALIGN FM SYSTEMS. | 26 | 33 | 45 | 0 | 26 | 33 | 25 |
| K 678 K2-05 DO YOU TROUBLESHOOT TO FM SYSTEMS. | 26 | 26 | 26 | 4 | 24 | 24 | 26 |
| K 679 K2-06 DO YOU TROUBLESHOOT TO FM COMPONENTS. | 26 | 26 | 26 | 4 | 24 | 24 | 26 |
| X 680 K2-07 DO YOU REMOVE OR REPLACE FM SYSTEMS. | 24 | 24 | 24 | 4 | 23 | 23 | 24 |
| K 681 K2-08 DO YOU REMOVE OR REPLACE FM COMPONENTS. | 27 | 31 | 26 | 4 | 25 | 26 | 25 |
| K 682 K2-09 DO YOU PERFORM ANY TASKS ON AUDIO AMPLIFIERS. | 15 | 12 | 16 | 4 | 13 | 13 | 13 |
| K 683 K2-10 DO YOU PERFORM ANY TASKS ON FREQUENCY MULTIPLIERS. | 29 | 33 | 29 | 4 | 27 | 33 | 29 |
| K 684 K2-11 DO YOU PERFORM ANY TASKS ON DRIVERS (INTERMEDIATE AMPLIFIERS). | 27 | 22 | 27 | 4 | 26 | 22 | 27 |

151

| | UVTSA | SPC
001 | SPC
002 | SPC
003 | SPC
004 |
|--|-------|------------|------------|------------|------------|
| K 483 K2-12 DO YOU PERFORM ANY TASKS ON POWER AMPLIFIERS. | 24 | 26 | 29 | 13 | |
| K 484 K2-13 DO YOU PERFORM ANY TASKS ON HF AMPLIFIERS. | 26 | 28 | 26 | 13 | |
| K 485 K2-14 DO YOU PERFORM ANY TASKS ON FREQUENCY CONVERTERS. | 26 | 26 | 27 | 13 | |
| K 486 K2-15 DO YOU PERFORM ANY TASKS ON IF AMPLIFIERS. | 25 | 26 | 26 | 13 | |
| K 487 K2-16 DO YOU PERFORM ANY TASKS ON LIMITERS. | 21 | 19 | 23 | 13 | |
| K 488 K2-17 DO YOU PERFORM ANY TASKS ON FREQUENCY DISCRIMINATORS. | 21 | 18 | 24 | 13 | |
| K 489 K2-18 DO YOU TRACE SIGNALS ON CURRENT PATHS THROUGH SCHEMATIC DIAGRAMS OF FM TRANSMITTERS. | 24 | 29 | 22 | 13 | |
| K 490 K2-19 DO YOU TRACE SIGNALS ON CURRENT PATHS THROUGH SCHEMATIC DIAGRAMS OF FM RECEIVERS. | 30 | 28 | 32 | 19 | |
| K 491 K3-01 DO YOU CONVERT DECIMAL BASE TO OCTAL BASE TO OCTAL BASE & NUMBERS. | 55 | 51 | 64 | 50 | |
| K 492 K3-02 DO YOU CONVERT DECIMAL NUMBERS TO BINARY BASE 21 NUMBERS. | 57 | 41 | 68 | 50 | |
| K 493 K3-03 DO YOU CONVERT OCTAL NUMBERS TO DECIMAL NUMBERS. | 53 | 40 | 63 | 38 | |
| K 494 K3-04 DO YOU CONVERT OCTAL NUMBERS TO BINARY NUMBERS. | 53 | 36 | 65 | 44 | |
| K 495 K3-05 DO YOU CONVERT BINARY NUMBERS TO DECIMAL NUMBERS. | 54 | 40 | 67 | 44 | |
| K 496 K3-06 DO YOU CONVERT BINARY NUMBERS TO OCTAL NUMBERS. | 56 | 47 | 64 | 44 | |
| K 497 K3-07 DO YOU ADD BINARY NUMBERS TO GET A SUM. | 37 | 28 | 46 | 13 | |
| K 498 K3-08 DO YOU SUBTRACT BINARY NUMBERS USING THE END-AROUND-CARRY METHOD. | 30 | 21 | 37 | 4 | |
| K 499 K3-09 DO YOU SUBTRACT BINARY NUMBERS USING THE DIRECT SUBTRACTION METHOD. | 32 | 22 | 39 | 13 | |
| K 500 K3-10 DO YOU ADD OCTAL NUMBERS TO GET A SUM. | 34 | 31 | 44 | 19 | |
| L 701 LT-01 DO YOU USE OR REFER TO TRUTH TABLES FOR AND OR LOGIC RELATING TO LOGIC FUNCTIONS. | 41 | 41 | 47 | 6 | |
| L 702 LT-02 DO YOU CONSTRUCT TRUTH TABLES FOR AND OR LOGIC SYMBOLS WITH STATE INDICATORS. | 20 | 33 | 28 | 0 | |
| L 703 LT-03 DO YOU CONSTRUCT TRUTH TABLES FOR EXCLUSIVE OR LOGIC SYMBOLS OR GATES. | 24 | 33 | 26 | 0 | |
| L 704 LT-04 DO YOU USE OR REFER TO TRUTH TABLES FOR AND OR LOGIC SYMBOLS OR GATES. | 24 | 33 | 26 | 0 | |
| L 705 LT-05 DO YOU CONSTRUCT TRUTH TABLES FOR OR LOGIC SYMBOLS OR GATES. | 24 | 33 | 26 | 0 | |
| L 706 LT-06 DO YOU USE OR REFER TO TRUTH TABLES FOR AND OR LOGIC SYMBOLS OR GATES. | 24 | 33 | 26 | 0 | |
| L 707 LT-07 DO YOU USE OR REFER TO TRUTH TABLES FOR OR LOGIC SYMBOLS OR GATES. | 24 | 31 | 24 | 0 | |
| L 708 LT-08 DO YOU USE OR REFER TO TRUTH TABLES FOR AND OR LOGIC SYMBOLS OR GATES. | 41 | 41 | 41 | 6 | |
| L 709 LT-09 DO YOU USE OR REFER TO TRUTH TABLES FOR OR LOGIC SYMBOLS OR GATES. | 41 | 46 | 41 | 6 | |
| L 710 LT-10 DO YOU USE OR REFER TO TRUTH TABLES FOR AND OR LOGIC SYMBOLS WITH STATE INDICATORS. | 41 | 48 | 41 | 6 | |
| L 711 LT-11 DO YOU USE OR REFER TO TRUTH TABLES FOR EXCLUSIVE OR LOGIC SYMBOLS. | 40 | 47 | 40 | 6 | |
| L 712 LT-12 DO YOU USE OR REFER TO LOGIC SYMBOLS FOR AND GATES. | 40 | 52 | 48 | 4 | |
| L 713 LT-13 DO YOU USE OR REFER TO LOGIC SYMBOLS FOR OR GATES. | 40 | 52 | 48 | 4 | |
| L 714 LT-14 DO YOU USE OR REFER TO LOGIC SYMBOLS FOR NAND OR NOR LOGIC SYMBOLS. | 40 | 52 | 48 | 4 | |
| L 715 LT-15 DO YOU USE OR REFER TO LOGIC SYMBOLS FOR NOR OR NOR LOGIC SYMBOLS. | 40 | 52 | 48 | 4 | |

PCT MARS PREMS DUTIES/TASKS BY DAFSC GPS
TASK GROUP SUMMARY
PERCENT MEMBERS PERFORMING

GPSUM3 PAGE 30

308X3 30830 30870 30890

| | DUTY TASK | SPC
001 | SPC
002 | SPC
003 | SPC
004 |
|-------------|--|------------|------------|------------|------------|
| L 716 L2-01 | DO YOU USE OR REFER TO LOGIC SYMBOLS FOR EXCLUSIVE OR GATES. | 46 | 52 | 49 | 6 |
| L 717 L2-02 | DO YOU PERFORM ANY TASKS RELATING TO BOOLEAN EQUATIONS, LOGIC DIAGRAMS OR LOGIC SYMBOLS FOR DIRECT COUPLED TRANSISTOR LOGIC (DCTL) CIRCUITS. | 14 | 10 | 17 | 6 |
| L 718 L2-03 | DO YOU CONSTRUCT TRUTH TABLES FOR CURRENT MODE LOGIC (TFL) CIRCUITS. | 5 | 3 | 7 | 0 |
| L 719 L2-04 | DO YOU DRAW LOGIC DIAGRAMS FROM GIVEN BOOLEAN EQUATIONS. | 17 | 10 | 22 | 0 |
| L 720 L2-05 | DO YOU MEASURE INPUTS ON OUTPUTS OF LOGIC GATES. | 27 | 24 | 30 | 0 |
| L 721 L2-06 | DO YOU DEVELOP OR ANALYZE BOOLEAN EQUATIONS IN THE PROCESS OF TROUBLESHOOTING DIGITAL CIRCUITS. | 14 | 7 | 19 | 0 |
| L 722 L2-07 | DO YOU ANALYZE LOGIC CIRCUITS BY USING BOOLEAN ALGEBRA. | 17 | 9 | 24 | 0 |
| L 723 L2-08 | DO YOU USE OR REFER TO LOGIC SYMBOLS FOR DIRECT COUPLED TRANSISTOR LOGIC (DCTL) CIRCUIT GATES. | 20 | 16 | 24 | 6 |
| L 724 L2-09 | DO YOU USE OR REFER TO "TRUTH TABLES" OR CURRENT MODE LOGIC (LCHL) CIRCUITS. | 9 | 9 | 10 | 0 |
| L 725 L2-10 | DO YOU USE OR REFER TO LOGIC DIAGRAMS CONSISTING OF MORE THAN ONE GATE. | 29 | 24 | 33 | 6 |
| L 726 L2-11 | DO YOU COMPUTE SUM AND CARRY EXPRESSIONS FOR SERIAL HALF OR FULL ADDER LOGIC DIAGRAMS. | 21 | 19 | 24 | 0 |
| L 727 L2-12 | DO YOU TRACE DATA FLOW THROUGH PARALLEL FULL ADDER LOGIC DIAGRAMS. | 24 | 22 | 27 | 0 |
| L 728 L2-13 | DO YOU WORK WITH ASTABLE (FREE RUNNING) MULTIVIBRATORS. | 29 | 35 | 30 | 6 |
| L 729 L2-14 | DO YOU WORK WITH HISTABLE (FLIP-FLOP) MULTIVIBRATORS. | 32 | 38 | 31 | 3 |
| L 730 L2-15 | DO YOU WORK WITH NONSTABLE (ONE-SHOT) MULTIVIBRATORS. | 31 | 34 | 31 | 3 |
| L 731 L2-16 | DO YOU USE OR REFER TO FLIP-FLOP MULTIVIBRATOR SYMBOLS. | 35 | 36 | 37 | 13 |
| L 732 L2-17 | DO YOU USE OR REFER TO SINGLE-SHOT MULTIVIBRATOR SYMBOLS. | 35 | 36 | 37 | 13 |
| L 733 L2-18 | DO YOU USE OR REFER TO FLIP-FLOP CIRCUIT DIAGRAMS. | 36 | 38 | 37 | 13 |
| L 734 L2-19 | DO YOU USE OR REFER TO FLIP-FLOP TRUTH TABLES. | 32 | 31 | 34 | 13 |
| L 735 L2-20 | DO YOU USE OR REFER TO COMPLEMENTED FLIP-FLOP LOGIC SYMBOLS. | 29 | 29 | 31 | 13 |
| L 736 L2-21 | DO YOU USE OR REFER TO COMPLEMENTING FLIP-FLOP LOGIC SYMBOLS. | 29 | 26 | 31 | 13 |
| L 737 L2-22 | DO YOU MEASURE OUTPUT WAVESHAPE OF LOGIC CIRCUITS. | 26 | 33 | 29 | 6 |
| L 738 L2-23 | DO YOU TRACE DATA FLOW THROUGH COMPLEMENTED FLIP-FLOP SCHEMATIC DIAGRAMS. | 26 | 33 | 28 | 6 |
| L 739 L2-24 | DO YOU TRACE DATA FLOW THROUGH COMPLEMENTING FLIP-FLOP SCHEMATIC DIAGRAMS. | 26 | 26 | 29 | 6 |

PCT WORKS PREPNS DUTIES/TASKS BY DAFSC OPS
 TASK GROUP SUMMARY
 FENCENT MEMBERS PLATFORING

425941 2461 31

308KG 30530 3087C 30890

DY-TSK

L 740 L-25 DO YOU CONSTRUCT TRUTH TABLES FOR J-K FLIP-FLOP
 LOGIC SYMBOLS.

L 741 L-01 DO YOU WORK WITH DIGITAL COUNTERS IN YOCH PRESENT

- | | SPEC
U01 | SPEC
U02 | SPEC
U03 | SPL
004 |
|---|-------------|-------------|-------------|------------|
| L 742 L-02 DO YOU USE ON REFER TO THE TERM UP-COUNTER. | 45 | 48 | 46 | 19 |
| L 743 L-03 DO YOU USE ON REFER TO THE TERM DOWN-COUNTER. | 45 | 45 | 45 | 19 |
| L 744 L-04 DO YOU USE ON REFER TO THE TERM SEMI-LA COUNTER. | 45 | 45 | 45 | 19 |
| L 745 L-05 DO YOU USE ON REFER TO THE TERM TWO-LEVEL COUNTER. | 45 | 45 | 45 | 19 |
| L 746 L-06 DO YOU USE ON REFER TO THE TERM RING COUNTER. | 36 | 36 | 36 | 19 |
| L 747 L-07 DO YOU USE ON REFER TO THE TERM DECade COUNTER. | 35 | 35 | 35 | 19 |
| L 748 L-08 DO YOU USE ON REFER TO THE TERM COUNT DETECT. | 34 | 40 | 13 | 19 |
| L 749 L-09 DO YOU USE ON REFER TO THE TERM COUNTER. | 33 | 37 | 6 | 19 |
| L 750 L-10 DO YOU USE ON REFER TO THE TERM DOWN CLOCK. | 27 | 54 | 73 | 19 |
| L 751 L-11 DO YOU TRACE THE DATA FLOW THROUGH LOGIC DIAGRAMS | 29 | 26 | 32 | 13 |
| L 752 L-12 DO YOU TRACE THE DATA FLOW THROUGH LOGIC DIAGRAMS
OF SERIAL UP-OR DOWN-COUNTER HAVING COMPLEMENTING
CIRCUIT. | 30 | 28 | 33 | 13 |
| L 753 L-13 DO YOU TRACE THE DATA FLOW THROUGH LOGIC DIAGRAMS
OF DECade COUNTER. | 31 | 34 | 32 | 6 |
| L 754 L-14 DO YOU TRACE THE DATA FLOW THROUGH LOGIC DIAGRAMS
OF RING COUNTER. | 26 | 28 | 26 | 0 |
| L 755 L-15 DO YOU TRACE THE DATA FLOW THROUGH LOGIC DIAGRAMS
OF SERIAL UP-COUNTER FEEDING A PARALLEL STORANGE | 28 | 26 | 30 | 6 |
| L 756 L-16 DO YOU TRACE THE DATA FLOW THROUGH LOGIC DIAGRAMS
OF SHIFT REGISTER. | 34 | 40 | 40 | 13 |
| L 757 L-17 DO YOU TRACE THE DATA FLOW THROUGH LOGIC DIAGRAMS
OF OTHER TYPE OF COUNTER. | 14 | 14 | 24 | 0 |
| L 758 L-18 DO YOU COMPUTE THE BINARY COUNT AFTER A SPECIFIC
INPUT PULSE FOR UP-COUNTER HAVING COMPLETED INPUT | 21 | 19 | 24 | 0 |
| L 759 L-19 DO YOU COMPUTE THE BINARY COUNT AFTER A SPECIFIC
INPUT PULSE FOR SERIAL UP- OR DOWN-COUNTER HAVING | 20 | 19 | 22 | 0 |
| L 760 L-20 DO YOU COMPUTE THE BINARY COUNT AFTER A SPECIFIC
INPUT PULSE FOR SERIAL UP-COUNTER FEEDING A PARALLEL
INPUT PULSE. | 22 | 22 | 23 | 0 |
| L 761 L-21 DO YOU COMPUTE THE BINARY COUNT AFTER A SPECIFIC
INPUT PULSE FOR OTHER TYPE OF COUNTER. | 11 | 7 | 16 | 0 |
| L 762 L-22 DO YOU CONSTRUCT TRUTH TABLES FROM LOGIC DIAGRAMS
OF DECade COUNTERS. | 13 | 9 | 16 | 0 |
| L 763 L-23 DO YOU DETERMINE THE STATE OF EACH FLIP-FLOP IN A
RING COUNTER FOR SPECIFIC INPUT PULSES. | 21 | 27 | 22 | 0 |
| L 764 L-24 DO YOU DETERMINE THE APPROPRIATE AND GATE
NECESSARY IN A COUNT DETECT CIRCUIT TO INDICATE A | 29 | 21 | 26 | 6 |

PCT HRS PERFORMED/TASKS BY DAFSC GPS
 TASK GROUP SUMMARY
 PERCENT MEMBERS PERFORMING

GP SUM 3 PAGE 32
 308X0 30830 30870 30890

| | DO-TSK | SPC 001 | SPC 002 | SPC 003 | SPC 004 | SPC 001 | SPC 002 | SPC 003 | SPC 004 |
|-------------|---|---------|---------|---------|---------|---------|---------|---------|---------|
| M 765 M1-01 | DO YOU WORK WITH SAWTOOTH WAVE GENERATORS. | 29 | 31 | 32 | 3 | 16 | 10 | 22 | 0 |
| M 766 M1-02 | DO YOU WORK WITH TRAPEZOIDAL WAVE GENERATORS. | 16 | 21 | 14 | 0 | 16 | 29 | 34 | 0 |
| M 767 M1-03 | DO YOU WORK WITH PULSED OSCILLATORS WITH REGENERATIVE FEEDBACK. | 16 | 21 | 14 | 0 | 25 | 26 | 27 | 0 |
| M 768 M1-04 | DO YOU WORK WITH PULSED OSCILLATORS WITHOUT REGENERATIVE FEEDBACK. | 13 | 16 | 13 | 0 | 26 | 24 | 31 | 0 |
| M 769 M1-05 | DO YOU WORK WITH BLOCKING OSCILLATORS. | 15 | 16 | 16 | 0 | 16 | 14 | 18 | 0 |
| M 770 M1-06 | DO YOU USE OR REFER TO RISE TIME. | 31 | 29 | 34 | 0 | 14 | 16 | 15 | 0 |
| M 771 M1-07 | DO YOU USE OR REFER TO FALL OR FLYBACK TIME. | 25 | 26 | 27 | 0 | 17 | 16 | 19 | 0 |
| M 772 M1-08 | DO YOU USE OR REFER TO SLEEP TIME. | 26 | 24 | 31 | 0 | 17 | 16 | 19 | 0 |
| M 773 M1-09 | DO YOU USE OR REFER TO ELECTRICAL LENGTH OF SAWTOOTH WAVEFORMS. | 16 | 14 | 18 | 0 | 17 | 14 | 20 | 0 |
| M 774 M1-10 | DO YOU USE OR REFER TO PHYSICAL LENGTH OF SAWTOOTH WAVEFORMS. | 14 | 16 | 15 | 0 | 14 | 16 | 15 | 0 |
| M 775 M1-11 | DO YOU USE OR REFER TO LINEAR SLOPE OF SAWTOOTH WAVEFORMS. | 17 | 16 | 19 | 0 | 17 | 16 | 19 | 0 |
| M 776 M1-12 | DO YOU USE OR REFER TO GATE LENGTH OF SAWTOOTH WAVEFORMS. | 17 | 14 | 20 | 0 | 17 | 14 | 20 | 0 |
| M 777 M2-01 | DO YOU USE SIGNAL GENERATORS ON YOUR PRESENT JOB WHILE USING SIGNAL GENERATORS. | 44 | 57 | 40 | 13 | 43 | 55 | 39 | 13 |
| M 778 M2-02 | DO YOU PERFORM OPERATIONAL OR PERFORMANCE CHECKS WHILE USING SIGNAL GENERATORS. | 32 | 40 | 31 | 6 | 28 | 31 | 28 | 13 |
| M 779 M2-03 | DO YOU PERFORM PERIODIC MAINTENANCE SUCH AS ADJUSTING, ALIGNING OR CALIBRATING WHILE USING SIGNAL SUB-ASSEMBLY DO YOU PERFORM TROUBLESHOOTING TO AN ASSEMBLY OR SUB-ASSEMBLY WHILE USING SIGNAL GENERATORS. | 25 | 26 | 29 | 0 | 25 | 26 | 29 | 0 |
| M 780 M2-04 | DO YOU PERFORM TROUBLESHOOTING TO THE SMALLEST REPLACEABLE COMPONENT WHILE USING SIGNAL GENERATORS. | 26 | 29 | 26 | 6 | 24 | 28 | 27 | 13 |
| M 782 M2-05 | DO YOU USE AUDIO SINE-WAVE GENERATORS. | 26 | 29 | 26 | 6 | 24 | 28 | 27 | 13 |
| M 783 M2-06 | DO YOU USE AUDIO NON-SINUSOIDAL WAVE GENERATORS SUCH AS SQUARE WAVE, TRIANGLE, PULSE OR SPIKE. | 26 | 29 | 26 | 6 | 24 | 28 | 27 | 13 |
| M 784 M2-07 | DO YOU USE RF GENERATORS LESS THAN 1,000 MHZ. | 30 | 38 | 29 | 4 | 28 | 34 | 26 | 6 |
| M 785 M2-08 | DO YOU USE RF GENERATORS GREATER THAN 1,000 MHZ. | 28 | 38 | 29 | 4 | 28 | 34 | 26 | 6 |
| M 786 M2-09 | DO YOU USE OTHER SPECIAL PURPOSE OR MULTI-FUNCTION GENERATORS. | 24 | 24 | 26 | 4 | 24 | 24 | 26 | 4 |
| M 787 M2-10 | DOES YOUR JOB INVOLVE ANY TASKS DEALING WITH ALTERNATING CURRENT OR DIRECT CURRENT MOTORS ON | 41 | 47 | 40 | 19 | 36 | 43 | 35 | 13 |
| M 788 M3-02 | DO YOU INSPECT MOTORS. | 30 | 41 | 27 | 0 | 28 | 38 | 25 | 0 |
| M 789 M3-03 | DO YOU CLEAN OR LUBRICATE MOTORS. | 26 | 36 | 25 | 0 | 27 | 34 | 28 | 0 |
| M 790 M3-04 | DO YOU OPERATE MOTORS. | 27 | 34 | 28 | 0 | 28 | 34 | 28 | 0 |
| M 791 M3-05 | DO YOU REMOVE OR REPLACE COMPLETE MOTORS. | 20 | 28 | 16 | 0 | 21 | 24 | 14 | 0 |
| M 792 M3-06 | DO YOU REMOVE OR REPLACE MOTOR PARTS. | 20 | 28 | 16 | 0 | 21 | 24 | 14 | 0 |
| M 793 M3-07 | DO YOU TROUBLESHOOT MOTORS AS FAR AS CHECKING WIRE CONNECTIONS BUT DO NOT TROUBLESHOOT DOWN TO COMPONENT PARTS. | 18 | 24 | 16 | 0 | 18 | 24 | 16 | 0 |

| | SPC
001 | SPC
002 | SPC
003 | SPC
004 |
|--|------------|------------|------------|------------|
| N 795 M3-10 ARE YOU REQUIRED TO PERFORM ANY TASKS ON MOTOR FIELD COILS. | 7 | 9 | 7 | 0 |
| N 796 M3-10 ARE YOU REQUIRED TO PERFORM ANY TASKS ON MOTOR ARMATURES. | 9 | 9 | 9 | 0 |
| N 797 M3-11 ARE YOU REQUIRED TO PERFORM ANY TASKS ON MOTOR ROTORS. | 11 | 12 | 12 | 0 |
| N 798 M3-12 ARE YOU REQUIRED TO PERFORM ANY TASKS ON MOTOR BRUSHES. | 22 | 31 | 20 | 0 |
| N 799 M3-13 ARE YOU REQUIRED TO PERFORM ANY TASKS ON MOTOR SLIP RINGS. | 10 | 10 | 11 | 0 |
| N 800 M3-14 ARE YOU REQUIRED TO PERFORM ANY TASKS ON MOTOR COMMUTATORS. | 10 | 14 | 9 | 0 |
| N 801 M3-15 ARE YOU REQUIRED TO PERFORM ANY TASKS ON MOTOR POLE PIECES. | 7 | 9 | 4 | 0 |
| N 802 M3-16 DO YOU DETERMINE OR MEASURE THE MAGNITUDE OF THE FORCE OR TORQUE CREATED BY A MOTOR. | 3 | 2 | 4 | 0 |
| N 803 M3-17 DO YOU DETERMINE OR MEASURE THE DIRECTION OF THE MECHANICAL FORCE OR TORQUE CREATED BY A MOTOR. | 9 | 10 | 0 | 0 |
| N 804 M3-18 DO YOU DETERMINE OR MEASURE THE MAGNITUDE OR DIRECTION OF THE INDUCED VOLTAGE IN A MOTOR. | 3 | 2 | 4 | 0 |
| N 805 M3-19 DO YOU WORK WITH SYNCHRONOUS MOTORS. | 18 | 19 | 18 | 0 |
| N 806 M3-20 DO YOU WORK WITH INDUCTION MOTORS. | 18 | 19 | 15 | 0 |
| N 807 M3-21 DO YOU WORK WITH SPLIT-PHASE MOTORS. | 9 | 10 | 8 | 0 |
| N 808 M3-22 DO YOU WORK WITH SOME COMBINATION OF THE ABOVE MOTORS. | 17 | 17 | 14 | 0 |
| N 809 M3-23 DO YOU INSPECT GENERATORS. | 3 | 14 | 14 | 0 |
| N 810 M3-24 DO YOU CLEAN OR LUBRICATE GF STOPS. | 10 | 12 | 10 | 0 |
| N 811 M3-25 DO YOU OPERATE GENERATORS. | 11 | 14 | 11 | 0 |
| N 812 M3-26 DO YOU REMOVE OR REPLACE COMP-EYE GENERATORS. | 5 | 5 | 4 | 0 |
| N 813 M3-27 DO YOU REMOVE OR REPLACE GENERATOR PARTS. | 4 | 5 | 5 | 0 |
| N 814 M3-28 DO YOU TROUBLESHOOT GENERATORS AS FAR AS CHECKING WIRE CONNECTIONS BUT DO NOT TROUBLESHOOT DOWN TO MOVING COILS. | 2 | 5 | 1 | 0 |
| N 815 M3-29 DO YOU TROUBLESHOOT DOWN TO GENERATOR COMPONENT PARTS. | 5 | 3 | 0 | 0 |
| N 816 M3-30 DO YOU WORK WITH METERS ON YOUR PRESENT JOB. | 94 | 53 | 49 | 0 |
| N 817 M3-31 DO YOU DESCRIBE THE FUNCTIONS OR USES OF METER PERMANENT MAGNETS. | 10 | 3 | 15 | 0 |
| N 818 M3-32 DO YOU DESCRIBE THE FUNCTIONS OR USES OF METER MOVING COILS. | 11 | 5 | 16 | 0 |
| N 819 M3-33 DO YOU DESCRIBE THE FUNCTIONS OR USES OF METER SPIRAL SPRINGS. | 9 | 9 | 13 | 0 |
| N 820 M3-34 DO YOU READ METER SCALES. | 42 | 52 | 41 | 0 |
| N 821 M3-35 DO YOU EXTEND THE RANGE OF AMMETERS. | 14 | 14 | 22 | 0 |
| N 822 M3-36 DO YOU ZERO OHMMETERS. | 36 | 52 | 36 | 0 |
| N 823 M3-38 DO YOU ZERO AMMETERS. | 25 | 31 | 24 | 0 |
| N 824 M3-39 DO YOU EXTEND THE RANGE OF VOLTMETERS. | 21 | 23 | 20 | 0 |

PCT MEMS PREFNG_DUTIES/TASKS BY QAFSC_SPS
TASK GROUP SUMMARY
PERCENT MEMBERS PERFORMING

VPSUM1 PAGE 35

308X0 30830 30870 30890

DY-TSK

N 650 N3-UP DO YOU DETERMINE WHETHER AN ALUM OR RC CIRCUIT IS DIFFERENTIATING OR INTEGRATING, BASED ON THE TIME
N 851 N3-10 DO YOU WORK WITH SQUARE WAVE GENERATORS.
N 852 N3-11 DO YOU WORK WITH RECTANGULAR WAVE GENERATORS.
O 853 OT-01 DO YOU WORK ON SINGLE STORGE AND SYSTEMS ON YOUR PRESENT JOB.
O 854 01-02 DO YOU INSPECT SSB SYSTEMS.
C 855 01-03 DO YOU CLEAN SSB SYSTEMS.
C 856 01-04 DO YOU ALIGN SSB SYSTEMS.
C 857 01-05 DO YOU TROUBLESHOOT TO SSB SYSTEMS.
C 858 01-06 DO YOU TROUBLESHOOT TO SSB COMPONENTS.
C 859 01-07 DO YOU REMOVE OR REPLACE SSB SYSTEMS.
C 860 01-08 DO YOU REMOVE OR REPLACE SSB COMPONENTS.
C 861 01-09 DO YOU PERFORM ANY TASKS ON SSB AUDIO AMPLIFIERS.
C 862 01-10 DC YOU PERFORM ANY TASKS ON SSB BALANCED MODULATORS.
C 863 01-11 DO YOU PERFORM ANY TASKS ON SSB CARRIER OSCILLATORS.
C 864 C1-12 DO YOU PERFORM ANY TASKS ON SSB LC FILTERS.
C 865 OT-13 DO YOU PERFORM ANY TASKS ON SSB CRYSTAL FILTERS.
C 866 01-14 DO YOU PERFORM ANY TASKS ON SSB MECHANICAL FILTERS.
C 867 01-15 DO YOU PERFORM ANY TASKS ON SSB OSCILLATORS.
C 868 OT-16 DO YOU PERFORM ANY TASKS ON SSB MIXERS.
C 869 01-17 DO YOU PERFORM ANY TASKS ON SSB DRIVERS.
C 870 OT-18 DO YOU PERFORM ANY TASKS ON SSB POWER AMPLIFIERS.
C 871 01-19 DO YOU PERFORM ANY TASKS ON SSB FREQUENCY AMPLIFIERS.
C 872 01-20 DO YOU PERFORM ANY TASKS ON SSB FREQUENCY CONVERTERS.
C 873 OT-21 DO YOU PERFORM ANY TASKS ON SSB IF AMPLIFIERS.
C 874 01-22 DO YOU PERFORM ANY TASKS ON SSB DEMODULATORS.
C 875 OT-23 DO YOU PERFORM ANY TASKS ON SSB DON'T REACHER WHICH SYSTEM STAGES.
C 876 01-24 DO YOU USE OR REFER TO SELECTIVE FADING.
C 877 01-25 DO YOU USE OR REFER TO PEAK POWER.
C 878 OT-26 DO YOU USE OR REFER TO FREQUENCY STABILITY.
C 879 01-27 DO YOU USE OR REFER TO RESPONSE CURVES FOR BANDWIDTH FILTERS.
C 880 01-28 DO YOU CALCULATE PEAK POWER OR EFFECTIVE POWER OF SSB TRANSMITTERS.
C 881 01-29 DO YOU TRACE SIGNALS OR CURRENT PATHS THROUGH SSB TRANSMITTER SCHEMATIC DIAGRAMS.
C 882 01-30 DO YOU TRACE SIGNALS OR CURRENT PATHS THROUGH SSB RECEIVER SCHEMATIC DIAGRAMS.
C 883 OT-31 DO YOU WORK ON PULSE MODULATION SYSTEMS ON YOUR PRESENT JOB.

MODULE 70 - SINGLE SIDEBAND SYSTEMS

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PCI MARS PAGING DUTIES/TASKS BY DAPSC GPS
TASK GROUP SUMMARY
PERCENT MEMBERS PERFORMING

SUMMARY PAGE 30

TODAY'S DATE: 2007 3 19

| DUTY-TASK | SPC | | | SPC | | | SPC | | | SPC | | |
|--|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| | 001 | 002 | 003 | 004 | 005 | 006 | 007 | 008 | 009 | 010 | 011 | 012 |
| 0 889 02-02 DO YOU INSPECT PULSE MODULATION SYSTEMS. | 24 | 34 | 23 | 4 | 19 | 19 | 20 | 20 | 21 | 21 | 21 | 0 |
| 0 889 02-03 DO YOU CLEAN PULSE MODULATION SYSTEMS. | 24 | 34 | 23 | 4 | 19 | 19 | 20 | 20 | 21 | 21 | 21 | 0 |
| 0 889 02-04 DO YOU ALIGN PULSE MODULATION SYSTEMS. | 24 | 34 | 23 | 4 | 19 | 19 | 20 | 20 | 21 | 21 | 21 | 0 |
| 0 889 02-05 DO YOU TROUBLESHOOT TO PULSE MODULATION SYSTEMS. | 24 | 34 | 23 | 4 | 19 | 19 | 20 | 20 | 21 | 21 | 21 | 0 |
| 0 889 02-06 DO YOU TROUBLESHOOT TO PULSE MODULATION SYSTEMS. | 24 | 34 | 23 | 4 | 19 | 19 | 20 | 20 | 21 | 21 | 21 | 0 |
| 0 889 02-07 DO YOU REMOVE OR REPLACE PULSE MODULATION SYSTEMS. | 19 | 22 | 19 | 0 | 19 | 22 | 19 | 0 | 19 | 22 | 22 | 0 |
| 0 890 02-08 DO YOU REMOVE OR REPLACE PULSE MODULATION SYSTEMS. | 24 | 34 | 23 | 4 | 19 | 19 | 20 | 20 | 21 | 21 | 21 | 0 |
| 0 891 02-09 DO YOU WORK ON PULSE-AMPLITUDE MODULATION (PAM) SYSTEMS. | 9 | 16 | 6 | 0 | 9 | 16 | 6 | 0 | 9 | 16 | 16 | 0 |
| 0 892 02-10 DO YOU WORK ON PULSE-DURATION MODULATION (PDM) SYSTEMS. | 5 | 5 | 5 | 0 | 5 | 5 | 5 | 0 | 5 | 5 | 5 | 0 |
| 0 893 02-11 DO YOU WORK ON PULSE POSITION MODULATION (PPM) SYSTEMS. | 5 | 2 | 7 | 0 | 5 | 2 | 7 | 0 | 5 | 2 | 7 | 0 |
| 0 894 02-12 DO YOU WORK ON PULSE-CODE MODULATION (PCM) SYSTEMS. | 30 | 36 | 28 | 13 | 30 | 36 | 28 | 13 | 30 | 36 | 28 | 13 |
| 0 895 02-13 DO YOU WORK ON LINE PULSING MODULATION SYSTEMS. | 1 | 0 | 1 | 0 | 1 | 0 | 1 | 0 | 1 | 0 | 1 | 0 |
| 0 896 02-14 DO YOU WORK ON DON'T REMEMBER WHICH TYPE OF PULSE MODULATION SYSTEM. | 2 | 3 | 1 | 0 | 2 | 3 | 1 | 0 | 2 | 3 | 1 | 0 |
| 0 897 02-15 DO YOU PERFORM TASKS ON PULSE MODULATION SYSTEM POWER SUPPLIES. | 22 | 29 | 19 | 6 | 22 | 29 | 19 | 6 | 22 | 29 | 19 | 6 |
| 0 898 02-16 DO YOU PERFORM TASKS ON PULSE MODULATION SYSTEM CHARGING CLOCHE AND CHARGING DIODES. | 7 | 5 | 9 | 0 | 7 | 5 | 9 | 0 | 7 | 5 | 9 | 0 |
| 0 899 02-17 DO YOU PERFORM TASKS ON PULSE MODULATION SYSTEM PULSE FORKING NETWORKS. | 14 | 16 | 15 | 0 | 14 | 16 | 15 | 0 | 14 | 16 | 15 | 0 |
| 0 900 02-18 DO YOU PERFORM TASKS ON PULSE MODULATION SYSTEM TIMERS. | 13 | 14 | 13 | 0 | 13 | 14 | 13 | 0 | 13 | 14 | 13 | 0 |
| 0 901 02-19 DO YOU PERFORM TASKS ON PULSE MODULATION SYSTEM SWITCHES SUCH AS GAS THYRATRONS. | 2 | 2 | 3 | 0 | 2 | 2 | 3 | 0 | 2 | 2 | 3 | 0 |
| 0 902 02-20 DO YOU PERFORM TASKS ON PULSE MODULATION SYSTEM PULSE TRANSFORMERS. | 9 | 11 | 6 | 0 | 9 | 11 | 6 | 0 | 9 | 11 | 6 | 0 |
| 0 903 02-21 DO YOU PERFORM TASKS ON PULSE MODULATION SYSTEM TRANSMITTER TUBES. | 3 | 2 | 4 | 0 | 3 | 2 | 4 | 0 | 3 | 2 | 4 | 0 |
| 0 904 02-22 DO YOU PERFORM TASKS ON PULSE MODULATION SYSTEM HF AMPLIFIERS. | 14 | 14 | 12 | 0 | 14 | 14 | 12 | 0 | 14 | 14 | 12 | 0 |
| 0 905 02-23 DO YOU PERFORM TASKS ON PULSE MODULATION SYSTEM FREQUENCY CONVERTERS. | 14 | 17 | 14 | 0 | 14 | 17 | 14 | 0 | 14 | 17 | 14 | 0 |
| 0 906 02-24 DO YOU PERFORM TASKS ON PULSE MODULATION SYSTEM IF AMPLIFIERS. | 13 | 14 | 13 | 0 | 13 | 14 | 13 | 0 | 13 | 14 | 13 | 0 |
| 0 907 02-25 DO YOU PERFORM TASKS ON PULSE MODULATION SYSTEM DETECTORS. | 14 | 19 | 15 | 0 | 14 | 19 | 15 | 0 | 14 | 19 | 15 | 0 |
| 0 908 02-26 DO YOU PERFORM TASKS ON PULSE MODULATION SYSTEM VIGETO AMPLIFIERS. | 9 | 5 | 12 | 0 | 9 | 5 | 12 | 0 | 9 | 5 | 12 | 0 |
| 0 909 02-27 DO YOU PERFORM TASKS ON PULSE MODULATION SYSTEM POWER VIDEO AMPLIFIERS. | 5 | 2 | 4 | 0 | 5 | 2 | 4 | 0 | 5 | 2 | 4 | 0 |
| 0 910 02-28 DO YOU PERFORM TASKS ON PULSE MODULATION SYSTEM DONTY REMEMBER WHICH STAGE. | 4 | 7 | 2 | 0 | 4 | 7 | 2 | 0 | 4 | 7 | 2 | 0 |

PCT HOURS PERFORM DUTIES/TASKS BY DAFSC UPS
 TASK GROUP SUMMARY
 PERCENT MEMBERS PERFORMING

SUSUN PAGE - 37

SCEN 30011 30870 30890

| DUTY | SPC | | | SPC | | | SPC | | |
|--|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| | 001 | 002 | 003 | 004 | 005 | 006 | 007 | 008 | 009 |
| 0 911 02-29 DO YOU USE OR REFER TO PULSE RECURRENCE FREQUENCY (PRF). | 16 | 19 | 15 | 0 | | | | | |
| 0 912 02-30 DO YOU USE OR REFER TO PULSE RECURRENCE TIME (PRT). | 16 | 17 | 16 | 0 | | | | | |
| 0 913 02-31 DO YOU USE OR REFER TO PULSE WIDTH (PW). | 20 | 24 | 19 | 0 | | | | | |
| 0 914 02-32 DO YOU USE OR REFER TO PULSE SHAPE. | 17 | 29 | 14 | 0 | | | | | |
| 0 915 02-33 DO YOU USE OR REFER TO PEAK POWER. | 9 | 12 | 7 | 0 | | | | | |
| 0 916 02-34 DO YOU USE OR REFER TO AVERAGE POWER. | 10 | 12 | 9 | 0 | | | | | |
| 0 917 02-35 DO YOU CALCULATE PULSE RECURRENCE TIME (PRT) OR PULSE RECURRENCE FREQUENCY (PRF). | 7 | 5 | 7 | 0 | | | | | |
| 0 918 02-36 DO YOU MEASURE PULSE RECURRENCE TIME (PRT) OR PULSE RECURRENCE FREQUENCY (PRF). | 12 | 14 | 12 | 0 | | | | | |
| 0 919 02-37 DO YOU CALCULATE AVERAGE POWER OR PEAK POWER OF PULSE MODULATION TRANSMIT SYSTEM. | 1 | 5 | 2 | 0 | | | | | |
| 0 920 02-38 DO YOU USE FORMULAS TO CALCULATE AVERAGE POWER OR PEAK POWER OF PULSE MODULATION TRANSMIT SYSTEMS. | 2 | 3 | 1 | 0 | | | | | |
| 0 921 02-39 DO YOU TRACE SIGNALS OR CURRENT PATHS THROUGH PULSE MODULATION TRANSMITTER SCHEMATIC DIAGRAMS. | 11 | 12 | 11 | 0 | | | | | |
| 0 922 02-40 DO YOU TRACE SIGNALS OR CURRENT PATHS THROUGH PULSE MODULATION RECEIVER SCHEMATIC DIAGRAMS. | 20 | 24 | 18 | 0 | | | | | |
| 0 923 03-01 DO YOU WORK WITH ANTENNAS ON YOUR PRESENT JOB. | 39 | 40 | 40 | 25 | | | | | |
| 0 924 03-02 DO YOU INSPECT ANTENNAS. | 29 | 34 | 26 | 25 | | | | | |
| 0 925 03-03 DO YOU CLEAN ANTENNAS. | 24 | 23 | 20 | 4 | | | | | |
| 0 926 03-04 DO YOU PHYSICALLY ALIGN ANTENNAS. | 9 | 12 | 9 | 0 | | | | | |
| 0 927 03-05 DO YOU ELECTRICALLY ALIGN ANTENNAS. | 16 | 19 | 16 | 0 | | | | | |
| 0 928 03-06 DO YOU TROUBLESHOOT TO ANTENNA COMPONENTS. | 17 | 21 | 17 | 0 | | | | | |
| 0 929 03-07 DO YOU TROUBLESHOOT TO ANTENNA COMPONENTS. | 22 | 24 | 24 | 0 | | | | | |
| 0 930 03-08 DO YOU REMOVE OR INSTALL ANTENNAS. | 7 | 2 | 11 | 0 | | | | | |
| 0 931 03-09 DO YOU REMOVE OR REPLACE COMPONENTS ON ANTENNA. | 17 | 21 | 16 | 0 | | | | | |
| 0 932 03-10 DO YOU USE OR REFER TO TECHNICAL DATA CONTAINING REPRESENTATIONS OF ELECTRIC FIELD LINES. | 4 | 3 | 4 | 0 | | | | | |
| 0 933 03-11 DO YOU USE OR REFER TO TECHNICAL DATA CONTAINING REPRESENTATIONS OF MAGNETIC FIELD LINES. | 6 | 5 | 6 | 0 | | | | | |
| 0 934 03-12 DO YOU DETERMINE THE DIRECTION OF THE MAGNETIC LINES IN RELATION TO THE ELECTRIC LINES OF FORCE FOR | 3 | 0 | 5 | 0 | | | | | |
| 0 935 03-13 DO YOU USE OR REFER TO THE GENERAL RULE THAT ANTENNAS WHICH ARE OF CORRECT LENGTH (HALF-WAVE) ACT AS | 2 | 0 | -3 | 0 | | | | | |
| 0 936 03-14 DO YOU USE OR REFER TO THE GENERAL RULE THAT ANTENNAS WHICH ARE LONGER THAN A HALF-WAVE ACT AS | 1 | 0 | 2 | 0 | | | | | |
| 0 937 03-15 DO YOU USE OR REFER TO THE GENERAL RULE THAT ANTENNAS WHICH ARE SHORTER THAN A HALF-WAVE ACT AS | 1 | 0 | 2 | 0 | | | | | |
| 0 938 03-16 DO YOU WORK WITH MANUFACTURED ANTENNAS. | 2 | 0 | 3 | 0 | | | | | |
| 0 939 03-17 DO YOU WORK WITH MANUFACTURED ANTENNAS. | 2 | 0 | 5 | 0 | | | | | |

PCT MANS/PNFNG DUTIES/TASKS BY DATA/CPS
TASK GROUP SUMMARY
PERCENT MEMBERS PERFORMING

GPMU/M3 PAGE 3a

308X0 30630 22E 3 30890

DT-TSK

| | SPC 001 | SPC 002 | SPC 003 | SPC 004 | |
|--|---------|---------|---------|---------|--------------------------------|
| 0 940 03-18 DO YOU WORK WITH BROADSIDE ARRAYS. | 1 | 0 | 2 | 0 | |
| 0 941 03-19 DO YOU WORK WITH END-FIRE ARRAYS. | 3 | 3 | 2 | 0 | |
| 0 942 03-20 DO YOU WORK WITH CARDIOID ARRAYS. | 1 | 0 | 1 | 0 | |
| 0 943 03-21 DO YOU WORK WITH COLLINEAR ARRAYS. | 0 | 0 | 0 | 0 | |
| 0 944 03-22 DO YOU USE ON REFERENCE TO THE TERM ELECTROMAGNETIC INDUCTION FIELDS WHEN WORKING WITH ANTENNAS. | 2 | 0 | 2 | 0 | |
| 0 945 03-23 DO YOU MEASURE ELECTROMAGNETIC INDUCTION FIELDS OF RADIATION FIELDS WHEN WORKING WITH ANTENNAS. | 1 | 0 | 1 | 0 | |
| 0 946 03-24 DO YOU USE OR REFER TO THE TERM ELECTROMAGNETIC RADIATION FIELDS WHEN WORKING WITH ANTENNAS. | 3 | 3 | 3 | 4 | |
| 0 947 03-25 DO YOU MEASURE ELECTROMAGNETIC RADIATION FIELDS OF VHF 03-26 DO YOU USE OR REFER TO THE TIME PHASE OF ELECTRIC (E) AND MAGNETIC (H) COMPONENTS IN THE ANTENNA | 1 | 2 | 0 | 4 | |
| 0 949 03-27 DO YOU USE OR REFER TO THE TIME PHASE OF ELECTRIC (E) AND MAGNETIC (H) COMPONENTS IN THE ANTENNA | 1 | 0 | 0 | 6 | |
| 0 950 03-28 ARE ANY OF THE ANTENNAS YOU WORK ON LINEARLY POLARIZED. | 2 | 3 | 3 | 0 | |
| 0 951 03-29 ARE ANY OF THE ANTENNAS YOU WORK ON CIRCULARLY POLARIZED. | 21 | 9 | 29 | 6 | |
| 0 952 03-30 DO YOU MEASURE OR DETERMINE THE POLARIZITY OF ANTENNAS YOU WORK ON. | 2 | 0 | 4 | 0 | |
| 0 953 03-31 DO YOU CONSTRUCT, OR MAKE THE CALCULATIONS NECESSARY TO CONSTRUCT, ANTENNAS OF CORRECT LENGTH FOR | 0 | 0 | 0 | 0 | |
| 0 954 03-32 DO YOU WORK WITH ANTENNA ARRAYS WHICH CONTAIN PARASITIC ELEMENTS. | 2 | 5 | 13 | 0 | |
| 0 955 03-33 DO YOU WORK WITH ANTENNA ARRAYS WHICH CONTAIN PARASITIC ELEMENTS SERVING AS DIRECTORS. | 5 | 5 | 6 | 0 | |
| 0 956 03-34 DO YOU WORK WITH ANTENNA ARRAYS WHICH CONTAIN PARASITIC ELEMENTS SERVING AS REFLECTORS. | 11 | 9 | 14 | 0 | |
| 0 957 03-35 DO YOU WORK WITH ANTENNA ARRAYS WHICH CONTAIN DONT MEMBER. | 4 | 9 | 1 | 4 | |
| 0 958 03-36 DO YOU WORK ON UNIDIRECTIONAL ANTENNAS. | 21 | 22 | 20 | 13 | |
| P 959 03-37 DO YOU WORK ON BIODIRECTIONAL ANTENNAS. | 5 | 3 | 6 | 0 | |
| P 960 03-38 DO YOU WORK ON DONT REMEMBER WHICH TYPE OF TRANSMISSION LINES. | 2 | 2 | 1 | 6 | |
| 0 961 03-39 DO YOU WORK WITH ROTAK ANTENNA ARRAYS. | 6 | 10 | 7 | 0 | |
| P 962 PICT-OUT TRANSMISSION LINES ARE DEFINED TO INCLUDE LEADS BETWEEN RECEIVERS AND ANTENNAS, TELEPHONE LEADS, AS P 963 PI-02 DO YOU REFER TO OR USE COPPER LOSS OR 1 H LOSS IN TRANSMISSION LINES. | 30 | 33 | 32 | 0 | MODULE 66 - TRANSMISSION LINES |

PCI MARS PREM DUTIES/TASKS AT DAFSC GPS
TASK GROUP SUMMARY
PERCENT MEMBERS PERFORMING

SPURS PAGE - 39

308X0 30830 30870 30890

DY-TSA

| | SPC
001 | SPC
002 | SPC
003 | SPC
004 |
|---|------------|------------|------------|------------|
| P 964 PI-03 DO YOU REFER TO OR USE SKIN EFFECTS OF HIGH FREQUENCY CURRENTS IN TRANSMISSION LINES. | 3 | 3 | 3 | 0 |
| P 965 PI-04 DO YOU REFER TO OR USE RADIATION LOSS IN TRANSMISSION LINES. | 3 | 3 | 0 | 0 |
| P 966 PI-05 DO YOU REFER TO OR USE DIELECTRIC LOSS IN TRANSMISSION LINES. | 2 | 0 | 3 | 0 |
| P 967 PI-06 DO YOU REFER TO OR USE LEAKAGE LOSSES IN TRANSMISSION LINES. | 4 | 3 | 6 | 0 |
| P 968 PI-07 DO YOU WORK WITH TWISTED PAIR TRANSMISSION LINES. | 14 | 9 | 19 | 0 |
| P 969 PI-08 DO YOU WORK WITH TWIN LEAD TRANSMISSION LINES. | 9 | 9 | 11 | 0 |
| P 970 PI-09 DO YOU WORK WITH OPEN TWO-WIRE TRANSMISSION LINES. | 3 | 2 | 5 | 0 |
| P 971 PI-10 DO YOU WORK WITH FLEXIBLE COAXIAL CABLE. | 29 | 34 | 31 | 0 |
| P 972 PI-11 DO YOU WORK WITH RIGID COAXIAL CABLE. | 20 | 16 | 24 | 0 |
| P 973 PI-12 DO YOU TROUBLESHOOT TRANSMISSION LINES. | 22 | 26 | 21 | 0 |
| P 974 PI-13 DO YOU ANALYZE VOLTAGE OR CURRENT WAVEFORMS IN TRANSMISSION LINES TO DETERMINE THE TYPE OF TERMINATION. | 1 | 0 | 2 | 0 |
| P 975 PI-14 DO YOU SELECT APPROPRIATE TRANSMISSION LINE TERMINATIONS TO ACHIEVE DESIRED WAVEFORMS. | 7 | 9 | 7 | 0 |
| P 976 PI-15 DO YOU USE OR REFER TO SCHEMATIC SYMBOLS FOR LINE TERMINATIONS IN TERMS OF CIRCUIT TERMINATIONS. | 14 | 16 | 17 | 0 |
| P 977 PI-16 DO YOU MEASURE STANDING WAVE RATIOS (SWR) OF TRANSMISSION LINES. | 12 | 17 | 10 | 0 |
| P 978 PI-17 DO YOU CALCULATE STANDING WAVE RATIOS (SWR) OF TRANSMISSION LINES. | 2 | 3 | 1 | 0 |
| P 979 PI-18 DO YOU PERFORM THE CALCULATIONS NECESSARY TO DETERMINE THE IMPEDANCE AND LENGTH OF QUARTER-WAVE MATCHED TO LOAD USING MATCHING TRANSFORMERS. | 0 | 0 | 0 | 0 |
| P 980 PI-19 DO YOU WORK WITH TRANSMISSION LINES WHICH ARE MATCHED TO LOAD USING DELTA MATCHING. | 7 | 9 | 11 | 0 |
| P 982 PI-20 DO YOU WORK WITH TRANSMISSION LINES WHICH ARE MATCHED TO A LOAD USING DELTA MATCHING. | 1 | 2 | 1 | 0 |
| P 982 PI-21 DO YOU SELECT THE TYPE OF TRANSMISSION LINE NEEDED FOR A PARTICULAR JOB WITHOUT REFERRING TO TECHNICAL IMPEDANCE (Z ₀) OF TRANSMISSION LINES. | 3 | 3 | 4 | 0 |
| P 983 PI-22 DO YOU REFER TO OR USE THE TERM CHARACTERISTIC IMPEDANCE (Z ₀) OF TRANSMISSION LINES. | 6 | 2 | 7 | 0 |
| P 984 PI-23 DO YOU CALCULATE THE CHARACTERISTIC IMPEDANCE (Z ₀) OF TRANSMISSION LINES. | 1 | 0 | 1 | 0 |
| P 985 PI-24 DO YOU REFER TO OR USE THE TERM CUTOFF FREQUENCY OF TRANSMISSION LINES. | 2 | 2 | 2 | 0 |
| P 986 PI-25 DO YOU REFER TO OR USE THE TERM VELOCITY FACTOR OF TRANSMISSION LINES. | 0 | 0 | 0 | 0 |
| P 987 PI-26 DO YOU COMPUTE THE ELECTRICAL LENGTH OF TRANSMISSION LINES FOR PARTICULAR FREQUENCIES. | 1 | 0 | 2 | 0 |
| P 988 PI-27 DO YOU CONSTRUCT TRANSMISSION LINES OF A PARTICULAR ELECTRICAL LENGTH FOR GIVEN FREQUENCIES. | 1 | 0 | 2 | 0 |

PCT1 MARS PAGING DUTIES/TASKS BY DAFSC_SPS

TASK GROUP SUMMARY
PERCENT MEMBERS PERFORMING

- - - - - GPSUM1.PAGE1 4C

308XC 30830 327 3339C

DY-TSK

- P 989 PI-28 DO YOU USE OR REFER TO THE GENERAL RULE THAT AS THE PHYSICAL LENGTH OF A TRANSMISSION LINE REMAINS P 990 PI-29 DO YOU WORK WITH MONORESONANT (FLAT) TRANSMISSION LINES.
- P 991 PI-30 DO YOU WORK WITH RESONANT TRANSMISSION LINES WHICH ARE P 992 PI-31 DO YOU WORK WITH TRANSMISSION LINES WHICH ARE MATCHED TO A LOAD USING STUB MATCHING.
- P 993 PI-32 DO YOU WORK WITH WAVEGUIDES OR CAVITY RESONATORS ON YOUR PRESENT JOB.
- P 994 P2-02 DO YOU INSPECT WAVEGUIDES OR CAVITY RESONATORS.
- P 995 P2-03 DO YOU CLEAN WAVEGUIDES OR CAVITY RESONATORS.
- P 996 P2-04 DO YOU BEND WAVEGUIDES OR CAVITY RESONATORS.
- P 997 P2-05 DO YOU TWIST WAVEGUIDES OR CAVITY RESONATORS.
- P 998 P2-06 DO YOU PRESSURIZE WAVEGUIDES OR CAVITY RESONATORS.
- P 999 P2-07 DO YOU PURGE WAVEGUIDES OR CAVITY RESONATORS.
- P1000 P2-08 DO YOU TROUBLESHOOT WAVEGUIDES OR CAVITY RESONATORS.

SPC U01 SPC U02 SPC U03 SPC

001 002 003 004

- P1001 P2-09 DO YOU REMOVE OR INSTALL COMPLETE WAVEGUIDE.
- P1002 P2-10 DO YOU REMOVE OR INSTALL WAVEGUIDE SECTIONS.
- P1003 P2-11 DO YOU REMOVE OR INSTALL DUMMY LOADS.
- P1004 P2-12 DO YOU REMOVE OR INSTALL E BENDS.
- P1005 P2-13 DO YOU REMOVE OR INSTALL M BENDS.
- P1006 P2-14 DO YOU REMOVE OR INSTALL OTHER BENDS.
- P1007 P2-15 DO YOU REMOVE OR INSTALL CHKE JOINTS.
- P1008 P2-16 DO YOU REMOVE OR INSTALL ROTATING JOINTS.
- P1009 P2-17 DO YOU REMOVE OR INSTALL DIRECTIONAL COUPLERS.
- P1010 P2-18 DO YOU REMOVE OR INSTALL BI-DIRECTIONAL COUPLERS.
- P1011 P2-19 DO YOU USE OR REFER TO A WALL OF WAVEGUIDES.
- P1012 P2-20 DO YOU USE OR REFER TO THE WALL OF WAVEGUIDES.
- P1013 P2-21 DO YOU USE OR REFER TO CUTOFF FREQUENCY OF WAVEGUIDES.
- P1014 P2-22 DO YOU USE OR REFER TO FREQUENCY-DETERMINING WALL OF WAVEGUIDES.
- P1015 P2-23 DO YOU USE OR REFER TO POWER-DETERMINING WALL OF WAVEGUIDES.
- P1016 P2-24 DO YOU USE OR REFER TO ELECTRIC-FIELD BOUNDARY CONDITIONS.
- P1017 P2-25 DO YOU USE OR REFER TO MAGNETIC-FIELD BOUNDARY CONDITIONS.
- P1018 P2-26 DO YOU USE OR REFER TO DUPLEXER FIELD BOUNDARY CONDITIONS.
- P1019 P2-27 DO YOU USE OR REFER TO THE GENERAL RULE THAT MOST WAVEGUIDES ARE MADE WITH A "B" WALL SIZE OF .7
- P1020 P2-28 DO YOU USE OR REFER TO THE GENERAL RULE THAT MOST "A" WALLS RANGE FROM .2 TO .5 WAVELENGTHS IN SIZE, WITH

SPC U01 SPC U02 SPC U03 SPC

001 002 003 004

20 29 17 4

15 29 12 0

1 2 1 0

1 1 0

10 21 4 0

7 16 3 0

17 29 15 0

17 22 9 0

17 28 13 0

10 16 9 0

7 16 4 0

5 10 2 0

5 9 3 0

7 16 4 0

14 17 14 0

10 14 10 0

1 3 2 0

1 9 2 0

4 9 4 0

2 5 1 0

1 2 1 0

1 2 0 0

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PCI MUNS PHMg DUTIES/TASKS BY DAESG SPS
TASK GROUP SUMMARY
PERCENT MEMBERS PERFORMING

SPLITTING PAGE #1

308X0 30830 30870 30890

| DUTY/TASK | SPC | | | |
|--|-----|-----|-----|-----|
| | 001 | 002 | 003 | 004 |
| P1021 P2-29 ARE YOU CONCERNED WITH THIS MATERIAL (SUCH AS BRASS) WHICH JAVEGUIDES ARE MADE OFF. | 1 | 2 | 0 | 3 |
| P1022 P2-30 DO YOU COMPUTE THE LENGTH OF A WAVEGUIDE FOR SPECIFIC INSTALLATION. | 1 | 0 | 4 | 0 |
| P1023 P2-31 DO YOU USE THE RIGHT MANY RULE TO DETERMINE THE DIRECTION OF PROPAGATION, DIRECTION OF "E" FIELDS, OR AND "H" LINES IN WAVEGUIDES. | 1 | 0 | 1 | 0 |
| P1024 P2-32 DO YOU USE OR REFER TO THE TIME PHASE OF ELEM "E" | 1 | 0 | 0 | 0 |
| P1025 P2-33 DO YOU MEASURE THE TIME PHASE OF "E" AND "H" LINES IN WAVEGUIDES. | 0 | 0 | 0 | 0 |
| P1026 P2-34 DO YOU USE OR REFER TO THE SPACE QUADRATURE OF "E" AND "H" LINES IN WAVEGUIDES. | 0 | 2 | 0 | 0 |
| P1027 P2-35 ARE HIGH POWER PROBES USED ON WAVEGUIDES OR CAVITY RESONATORS YOU WORK WITH. | 6 | 10 | 4 | 0 |
| P1028 P2-36 ARE LOW POWER PROBES USED ON WAVEGUIDES OR CAVITY RESONATORS YOU WORK WITH. | 7 | 7 | 9 | 0 |
| P1029 P2-37 ARE LOOPS USED ON WAVEGUIDES OR CAVITY RESONATORS YOU WORK WITH. | 3 | 3 | 3 | 0 |
| P1030 P2-38 ARE APERTURES (INDOORS OR IRISSES) USED ON WAVEGUIDES OR CAVITY RESONATORS YOU WORK WITH. | 10 | 10 | 11 | 0 |
| P1031 P2-39 ARE YOU REMEMBER WHICH ENERGY COUPLING DEVICE USED ON WAVEGUIDES OR CAVITY RESONATORS YOU WORK WITH. | 9 | 10 | 1 | 0 |
| P1032 P2-40 DO YOU DETERMINE WHERE PHONES SHOULD BE MOUNTED IN WAVEGUIDES OR CAVITY RESONATORS WITHOUT | 0 | 0 | 0 | 0 |
| P1033 P2-41 DO YOU DETERMINE THE POSITIONING OF LOOPS IN WAVEGUIDES OR CAVITY RESONATORS WITHOUT REFERRING TO | 0 | 0 | 0 | 0 |
| P1034 P2-42 DO YOU DETERMINE THE POSITIONING OR SIZE OF APERTURES IN WAVEGUIDES OR CAVITY RESONATORS WITHOUT | 1 | 0 | 1 | 0 |
| P1035 P2-43 ARE CHOCIE JOINTS USED ON WAVEGUIDES OR CAVITY RESONATORS YOU WORK WITH. | 9 | 12 | 6 | 0 |
| P1036 P2-44 ARE ROTATING JOINTS USED ON WAVEGUIDES OR CAVITY RESONATORS YOU WORK WITH. | 9 | 12 | 6 | 4 |
| P1037 P2-45 ARE YOU DON'T REMEMBER WHICH KIND OF JOINT USED ON WAVEGUIDES OR CAVITY RESONATORS YOU WORK WITH. | 2 | 3 | 2 | 0 |
| P1038 P2-46 DO YOU TUNE CAVITY RESONATORS USING CAPACITIVE TUNING. | 6 | 5 | 7 | 0 |
| P1039 P2-47 DO YOU TUNE CAVITY RESONATORS USING INDUCTIVE TUNING. | 2 | 2 | 3 | 0 |
| P1040 P2-48 DO YOU TUNE CAVITY RESONATORS USING VOLUME TUNING. | 4 | 2 | 3 | 0 |
| P1041 P2-49 DO YOU TUNE CAVITY RESONATORS USING DON'T REMEMBER HOW. | 5 | 10 | 3 | 0 |
| P1042 P2-50 DO YOU MEASURE THE FREQUENCY OF SIGNALS IN CAVITY RESONATORS. | 10 | 12 | 10 | 0 |

CONSUMERS PAGE

2

PER MGRS PERFORM DUTIES/TASKS BY DAFSC GPS
TASK GROUP SUMMARY
PERCENT MEMBERS PERFORMING

UPSUM3 PAGE 44

308X0 30830 30870 30890

| Q1-Q5 | Q6-Q10 | Q11-Q15 | Q16-Q20 | Q21-Q25 | Q26-Q30 | Q31-Q35 | Q36-Q40 | Q41-Q45 | Q46-Q50 |
|--|--------|---------|---------|---------|---------|---------|---------|---------|---------|
| P1103 P1-01 DO YOU USE OR REFER TO THE OPERATING PRINCIPLES OF
TWT COLLECTORS. | 9 | 12 | 9 | 0 | | | | | |
| P1104 P3-02 DO YOU USE OR REFER TO THE OPERATING PRINCIPLES OF
TWT MAGNETS. | 3 | 7 | 1 | 0 | | | | | |
| P1105 P3-03 DO YOU USE OR REFER TO THE OPERATING PRINCIPLES OF
TWT ATTENUATORS. | 5 | 13 | 3 | 0 | | | | | |
| P1106 P3-04 DO YOU PERFORM TASKS ON PARAMETRIC AMPLIFIER
TERTIATE CIRCUITORS. | 12 | 10 | 14 | 4 | | | | | |
| P1107 P3-05 DO YOU PERFORM TASKS ON PARAMETRIC AMPLIFIER
SIGNAL CAVITIES. | 4 | 7 | 9 | 4 | | | | | |
| P1108 P3-06 DO YOU PERFORM TASKS ON PARAMETRIC AMPLIFIER
TUNED CAVITIES. | 7 | 3 | 10 | 6 | | | | | |
| P1109 P3-07 DO YOU PERFORM TASKS ON PARAMETRIC AMPLIFIER
VARACTOR DIODES. | 15 | 12 | 16 | 4 | | | | | |
| P1110 P3-08 DO YOU PERFORM TASKS ON PARAMETRIC AMPLIFIER
FLAME ISOLATORS. | 7 | 5 | 8 | 4 | | | | | |
| P1111 P3-09 DO YOU PERFORM TASKS ON PARAMETRIC AMPLIFIER
REVERSE-BIAS BATTERIES. | 2 | 2 | 2 | 0 | | | | | |
| P1112 P3-10 DO YOU PERFORM TASKS ON MAGNETRON ANODES. | 0 | 0 | 0 | 0 | | | | | |
| P1113 P3-11 DO YOU PERFORM TASKS ON MAGNETRON ANODE COOLING
PINS. | 0 | 0 | 0 | 0 | | | | | |
| P1114 P3-12 DO YOU PERFORM TASKS ON MAGNETRON COUPLING LOOPS. | 0 | 0 | 0 | 0 | | | | | |
| P1115 P3-13 DO YOU PERFORM TASKS ON MAGNETRON HEATEN HEADS. | 0 | 0 | 0 | 0 | | | | | |
| P1116 P3-14 DO YOU PERFORM TASKS ON MAGNETRON RESONANT
CAVITIES. | 0 | 0 | 0 | 0 | | | | | |
| P1117 P3-15 DO YOU PERFORM TASKS ON MAGNETRON CATHODES. | 0 | 0 | 0 | 0 | | | | | |
| P1118 P3-16 DO YOU PERFORM TASKS ON MAGNETRON MAGNETS. | 0 | 0 | 0 | 0 | | | | | |
| Q1119 Q1-01 DO YOU USE OR REFER TO STORAGE REGISTERS. | 97 | 50 | 47 | 25 | | | | | |
| Q1120 Q1-02 DO YOU USE OR REFER TO SHIFT REGISTERS. | 97 | 52 | 47 | 25 | | | | | |
| Q1121 Q1-03 DO YOU USE OR REFER TO LOGIC SYMBOL OF SHIFT
REGISTERS. | 97 | 97 | 97 | 97 | | | | | |
| Q1122 Q1-04 DO YOU USE OR REFER TO LOGIC SYMBOL OF STORAGE
REGISTERS. | 97 | 97 | 97 | 97 | | | | | |
| Q1123 Q1-05 DO YOU TRACE THE DATA FLOW THROUGH LOGIC DIAGRAMS
OF SHIFT REGISTERS. | 93 | 93 | 93 | 93 | | | | | |
| Q1124 Q1-06 DO YOU TRACE THE DATA FLOW THROUGH LOGIC DIAGRAMS
OF OTHER TYPE REGISTERS. | 32 | 32 | 36 | 36 | | | | | |
| Q1125 Q1-07 DO YOU DETERMINE THE STATE OF EACH FLIP-FLOP OF A
SHIFT REGISTER AFTER A SPECIFIED NUMBER OF SHIFT PULSES | 35 | 38 | 36 | 33 | | | | | |
| Q1126 Q2-01 DO YOU WORK WITH DIGITAL COUNTERS, REGISTERS, OR
STORAGE DEVICES IN YOUR PRESENT JOB. | 49 | 53 | 49 | 25 | | | | | |
| Q1127 Q2-02 DO YOU USE OR REFER TO DELAY LINES. | 23 | 14 | 26 | 17 | | | | | |
| Q1128 Q2-03 DO YOU USE OR REFER TO MAGNETIC CORES. | 26 | 19 | 32 | 13 | | | | | |
| Q1129 Q2-04 DO YOU USE OR REFER TO MAGNETIC DRUMS. | 10 | 2 | 15 | 13 | | | | | |
| Q1130 Q2-05 DO YOU USE OR REFER TO MAGNETIC TAPES. | 33 | 28 | 36 | 17 | | | | | |
| Q1131 Q2-06 DO YOU USE OR REFER TO ACCESS TIMES OR SPEED OF
MEMORY SYSTEMS. | 24 | 16 | 30 | 13 | | | | | |

PCT MEMBERS PERFORM DUTIES/TASKS BY DAFSC GPS
 TASK GROUP SUMMARY
 PERCENT MEMBERS PERFORMING

GPSUM1 PAGE 46

308AG 3083C 30870 30890

DY-TSK

SPC SPC SPC

001 002 003

004

MODULE 7B -

FABRICATE CIRCUITS

AND ASSEMBLIES

R1151 R2-02 DO YOU TRACE DATA FLOW THROUGH SCHMITT TRIGGER SCHEMATIC DIAGRAMS.

R1152 R2-03 DO YOU USE OR REFER TO SCHMITT TRIGGER LOGIC SYMBOLS.

R1153 R3-01 ON YOUR PRESENT JOB DO YOU FABRICATE MULTIPLEXER CONDUCTOR CABLES.

R1154 R3-02 DO YOU FABRICATE COAXIAL COAXES.

S1155 SI-01 ON YOUR PRESENT JOB DO YOU PERFORM ANY TASKS ON VISUAL READOUT SYSTEMS.

S1156 SI-02 DO YOU PERFORM ANY TASKS ON NIXIE LIGHTS OF NIXIE LIGHT DECODER SYSTEMS.

S1157 SI-03 DO YOU ANALYZE NIXIE LIGHT DECODEN SYSTEMS USING BOOLEAN ALGEBRA.

S1158 SI-04 DO YOU WORK WITH PHOTO TUBES ON YOUR PRESENT JOB DO YOU WORK WITH CHOPPER CIRCUITS.

S1159 SI-02 DO YOU MEASURE EXCITATION FREQUENCY OF CHOPPER COILS.

S1160 SI-03 DO YOU MEASURE VOLTAGE-CURRENT PHASE RELATIONSHIP OF CHOPPER COILS.

S1161 SI-04 DO YOU USE OR REFER TO EXCITATION FREQUENCY OF CHOPPER COILS.

S1162 SI-05 DO YOU USE OR REFER TO VOLTAGE-CURRENT PHASE RELATIONSHIP OF CHOPPER COILS.

S1163 SI-06 DO YOU USE SERVOS IN CONJUNCTION WITH CHOPPER CIRCUIT OPERATION.

S1164 SI-07 DO YOU USE DETECTORS IN CONJUNCTION WITH CHOPPER CIRCUIT OPERATION.

S1165 SI-08 DO YOU USE ERROR SIGNAL DEVICES IN CONJUNCTION WITH CHOPPER CIRCUIT OPERATION.

S1166 SI-09 DO YOU USE COMPARISON IN CONJUNCTION WITH CHOPPER CIRCUIT OPERATION.

T1167 TI-01 DOES YOUR PRESENT JOB INVOLVE ANY TASKS DEALING WITH INFRARED SYSTEMS.

T1168 TI-02 DO YOU INSPECT INFRARED SYSTEMS.

T1169 TI-03 DO YOU TROUBLESHOOT DOWN TO COMPONENT PARTS OF INFRARED SYSTEMS.

T1170 TI-04 DO YOU ADJUST OR CALIBRATE INFRARED SYSTEMS.

T1171 TI-05 DO YOU OPERATE INFRARED SYSTEMS.

T1172 TI-06 DO YOU TROUBLESHOOT WIRE CONNECTIONS OF INFRARED SYSTEMS.

T1173 TI-07 DO YOU TROUBLESHOOT MAJOR ASSEMBLIES OF INFRARED SYSTEMS.

T1174 TI-08 DO YOU REMOVE OR REPLACE COMPONENT PARTS OF INFRARED SYSTEMS.

T1175 TI-09 DO YOU TROUBLESHOOT DOWN TO COMPONENT PARTS OF INFRARED SYSTEMS.

T1176 TI-10 DO YOU REMOVE OR REPLACE MAJOR ASSEMBLIES OF INFRARED SYSTEMS.

T1177 TI-11 DO YOU REMOVE OR REPLACE COMPONENT PARTS OF INFRARED SYSTEMS.

**TAKE GROUP SUMMARY
PERCENT MEMBERS PERFORMING**

PCT MEMBERS PERFORM DUTIES/TASKS BY DAFSC 6P2
 TASK GROUP SUMMARY
 PERCENT MEMBERS PERFORMING

EPSUM3 PAGE 48
 3C870 30930 20870 10870

| | DP-TSK | SPC 001 | SPC 002 | SPC 003 | SPC 004 |
|-------------|--|---------|---------|---------|---------|
| T1220 T2-26 | DO YOU WORK WITH HELICAL FLASHTUBES? | 0 | 0 | 0 | 0 |
| T1221 T2-27 | DOES YOUR PRESENT JOB INVOLVE ANY TASKS WHICH REQUIRE YOU TO WORK WITH RUBY. | 0 | 0 | 0 | 0 |
| T1222 T2-28 | DOES YOUR PRESENT JOB INVOLVE ANY TASKS WHICH REQUIRE YOU TO WORK WITH HELIUM-MEON. | 0 | 0 | 0 | 0 |
| T1223 T2-29 | DOES YOUR PRESENT JOB INVOLVE ANY TASKS WHICH REQUIRE YOU TO WORK WITH HELIUM-X-NON. | 0 | 0 | 0 | 0 |
| T1224 T2-30 | DOES YOUR PRESENT JOB INVOLVE ANY TASKS WHICH REQUIRE YOU TO WORK WITH XNON. | 0 | 0 | 0 | 0 |
| T1225 T2-31 | DOES YOUR PRESENT JOB INVOLVE ANY TASKS WHICH REQUIRE YOU TO WORK WITH CERIUM-MELUM. | 1 | 0 | 1 | 0 |
| T1226 T2-32 | DOES YOUR PRESENT JOB INVOLVE ANY TASKS WHICH REQUIRE YOU TO WORK WITH ARGON. | 0 | 0 | 0 | 0 |
| T1227 T2-33 | DOES YOUR PRESENT JOB INVOLVE ANY TASKS WHICH REQUIRE YOU TO WORK WITH NEODYMIUM IN GLASS. | 0 | 0 | 0 | 0 |
| T1228 T2-34 | DOES YOUR PRESENT JOB INVOLVE ANY TASKS WHICH REQUIRE YOU TO WORK WITH GALLIUM ARSENIDE. | 1 | 0 | 1 | 0 |
| T1229 T3-01 | ON YOUR PRESENT JOB DO YOU WORK WITH DISPLAY TUBES, SUCH AS DIRECT VIEW STORAGE DVST, OR MULTIPLE DVST? | 0 | 0 | 0 | 0 |
| T1230 T3-02 | DO YOU INSPECT DVST OR MMST. | 3 | 5 | 1 | 0 |
| T1231 T3-03 | DO YOU CLEAN DVST OR MMST? | 2 | 3 | 1 | 0 |
| T1232 T3-04 | DO YOU ADJUST OR CALIBRATE DVST OR MMST. | 1 | 2 | 1 | 0 |
| T1233 T3-05 | DO YOU OPERATE OPERATE A SYSTEM THAT CONTAINS A DVST OR MMST? | 4 | 3 | 1 | 0 |
| T1234 T3-06 | DO YOU TROUBLESHOOT DVST OR MMST CIRCUITS. | 2 | 3 | 2 | 0 |
| T1235 T3-07 | DO YOU REMOVE OR REPLACE THE DVST OR MMST TUBE FROM ITS MAJOR ASSEMBLY OR UNIT (YOU ACTUALLY REMOVE DVST OR MMST). | 1 | 3 | 0 | 0 |
| T1236 T3-08 | DO YOU PERFORM TASKS THAT MAKE IT NECESSARY TO BE ABLE TO NAME THE VARIOUS ELEMENTS OF DVST? | 2 | 0 | 3 | 0 |
| T1237 T3-09 | DO YOU PERFORM TASKS THAT MAKE IT NECESSARY TO BE ABLE TO NAME THE VARIOUS ELEMENTS OF MMST? | 1 | 0 | 2 | 0 |
| T1238 T3-10 | DO YOU PERFORM TASKS ON FLUID GUNS. | 1 | 0 | 1 | 0 |
| T1239 T3-11 | DO YOU PERFORM TASKS ON WHITE GUNS. | 1 | 0 | 1 | 0 |
| T1240 T3-12 | DO YOU PERFORM TASKS ON ATTACK GUNS. | 0 | 0 | 0 | 0 |
| T1241 T3-13 | DO YOU PERFORM TASKS ON ERASE GUNS. | 0 | 0 | 0 | 0 |
| T1242 T3-14 | DO YOU PERFORM TASKS ON STORAGE GRIDS. | 1 | 0 | 1 | 0 |
| U1243 U1-01 | ON YOUR PRESENT JOB, DO YOU PERFORM ANY PROGRAMMING TASKS. | 24 | 31 | 25 | 8 |
| U1244 U1-02 | DO YOU USE OR REFER TO DECIMAL SYSTEMS. | 16 | 14 | 23 | 0 |
| U1245 U1-03 | DO YOU USE OR REFER TO PROGRAMS. | 21 | 21 | 23 | 0 |
| U1246 U1-04 | DO YOU USE OR REFER TO HEXIDEcimal SYSTEMS. | 11 | 5 | 14 | 0 |
| U1247 U1-05 | DO YOU USE OR REFER TO B-4-2-1 SYSTEMS. | 6 | 3 | 8 | 0 |
| U1248 U1-06 | DO YOU USE OR REFER TO FOUR SYSTEMS. | 1 | 0 | 2 | 0 |
| U1249 U1-07 | DO YOU USE OR REFER TO BINARY SYSTEMS. | 18 | 16 | 23 | 0 |
| U1250 U1-08 | DO YOU USE OR REFER TO TIME-SHARING. | 2 | 13 | 0 | 0 |

PCI MARS PREM OUTLES/TASKS BY DATES/SPS
TASK GROUP SUMMARY
PERCENT MEMBERS PERFORMING

6PSUH PAGE - 39
308X0 30230 20870 -2890

| | DY-TSK | SPC
001 | SPC
002 | SPC
003 | SPC
004 |
|---|--------|------------|------------|------------|------------|
| U1251 U1-09 DO YOU USE OR REFER TO DATA WORDS. | 16 | 12 | 25 | 0 | |
| U1252 U1-10 DO YOU USE OR REFER TO ADDRESS WORDS. | 22 | 24 | 29 | 4 | |
| U1253 U1-11 DO YOU USE OR REFER TO ADDRESS\SUBADDRESS. | 14 | 17 | 14 | 0 | |
| U1254 U1-12 DO YOU USE OR REFER TO STEERING\INFORMATION. | 6 | 7 | 11 | 0 | |
| U1255 U1-13 DO YOU USE OR REFER TO INFORMATION WORDS. | 12 | 10 | 14 | 0 | |
| U1256 U1-14 DO YOU PERFORM TASKS ON SINGLE LEVEL PROGRAMMING SYSTEMS. | 7 | 7 | 6 | 0 | |
| U1-47 U1-15 DO YOU PERFORM TASKS ON MULTI-LEVEL PROGRAMMING | 3 | 3 | 3 | 0 | |
| U1258 U1-16 DO YOU PERFORM TASKS ON INPUT DEVICES. | 20 | 21 | 20 | 4 | |
| U1259 U1-17 DO YOU PERFORM TASKS ON STORAGE DEVICES. | 16 | 17 | 15 | 4 | |
| U1260 U1-18 DO YOU PERFORM TASKS ON ARITHMETIC SECTIONS. | 13 | 10 | 16 | 0 | |
| U1261 U1-19 DO YOU PERFORM TASKS ON CONTROL SECTIONS. | 14 | 14 | 16 | 0 | |
| U1262 U1-20 DO YOU PERFORM TASKS ON OUTPUT DEVICES. | 17 | 16 | 19 | 4 | |
| U1263 U1-21 DO YOU PERFORM TASKS ON POWER SUPPLIES. | 9 | 22 | 11 | 0 | |
| U1264 U2-01 DO YOU USE DECIBELS TO EXPRESS AMPLIFICATION AND ATTENUATION. | 39 | 61 | 39 | 25 | |
| U1265 U2-02 DO YOU USE LOGARITHMS TO COMPUTE OUTPUT POWER IN DECIBELS. | 7 | 7 | 5 | 13 | |
| U1266 U2-03 DO YOU USE LOGARITHMS TO COMPUTE ATTENUATION IN DECIBELS. | 7 | 7 | 5 | 13 | |
| U1267 DUNNY QUESTION TO FACILITATE SETTHICK | 4 | 5 | 4 | 0 | |

PCT MEMBERS ANSWERS YES FOR MAINT DAFSC GPS.

TABULATION OF PERCENT MEMBERS PERFORMING DUTIES AND TASKS BY DAFSC GROUPS IN THE JOBSAO CAREER FIELD.

HEPURIS ON THE FOLLOWING GROUPS HERE REQUESTED

| GROUP IDENTITY | GROUP IDENTITY | STAGE | KPATN ORDER FROM 05 TO 147 | CONTAINING 83 MEMBERS. |
|-------------------------|----------------|---|----------------------------|------------------------|
| GROUP IDENTITY = SPC017 | SPC024 | ALL MEMBERS OF SPC017 WHO ARE DAFSC 30A30 | 147 | CONTAINING 83 MEMBERS. |
| GROUP IDENTITY = SPC025 | SPC025 | ALL MEMBERS OF SPC017 WHO ARE DAFSC 30B70 | 35 | CONTAINING 35 MEMBERS. |
| GROUP IDENTITY = SPC025 | SPC025 | ALL MEMBERS OF SPC017 WHO ARE DAFSC 30B70 | 43 | CONTAINING 43 MEMBERS. |

SUMMARY PAGE 54

OUTA SAVOUP SUMAWAY PEGECEKINT MENEOLUAS PEGEPEANING

MAINTENANCE
308X0 2-83

51

| QTY | 6P
0017 | SPC
024 | SPC
025 |
|--|------------|------------|------------|
| A MATHEMATICS, DIRECT CURRENT, VOLTAGE, AND
RESISTANCE | 100 | 100 | 100 |
| B MULTIMETER USES; ALTERNATING
CURRENT, INDUCTORS, AND INDUCTIVE
CAPACITORS, CAPACITIVE REACTANCE, TRANSFORMERS,
AND MAGNETISM | 100 | 100 | 100 |
| C RCL CIRCUITS, SERIES AND PARALLEL
RESONANCE (TIME CONSTANTS), AND FILTERS | 93 | 97 | 91 |
| D COUPLING, SOLDERING, AND RELAYS | 100 | 100 | 100 |
| E MICROPHONES, SPEAKERS, AND OSCILLOSCOPES | 92 | 94 | 91 |
| F SEMICONDUCTOR DIODES, TRANSISTORS, AND TRANSISTOR
AMPLIFIERS | 100 | 100 | 100 |
| G SOLID STATE SPECIAL PURPOSE DEVICES, POWER
SUPPLIES, AND OSCILLATORS | 100 | 100 | 100 |
| H MULTIVIBRATORS, LIMITERS, CLAMPERS, AND ELECTRON TUNES | 90 | 86 | 93 |
| I ELECTRON TUBE AMPLIFIERS AND CIRCUITS, SPECIAL
PURPOSE ELECTRON TUBES, HETERODYNING, MODULATION,
AM SYSTEMS, FM SYSTEMS, AND NUMBERING SYSTEMS | 76 | 66 | 86 |
| J LOGIC FUNCTIONS, BOOLEAN EQUATIONS, AND COUNTERS | 94 | 91 | 95 |
| K TIMING CIRCUITS, USE OF SIGNAL GENERATORS,
MOTORS, AND GENERATORS | 95 | 97 | 98 |
| L METER MOVEMENTS, SATURABLE REACTORS,
MAGNETIC AMPLIFIERS, AND WAVE SHAPING CIRCUITS | 95 | 94 | 98 |
| M SINGLE SIDEBAND SYSTEMS, PULSE MODULATION
SYSTEMS, AND ANTENNAS | 66 | 63 | 68 |
| N TRANSMISSION LINES, WAVEGUIDES AND CAVITY
RESONATORS, AND MICROWAVE AMPLIFIERS AND OSCILLATORS | 73 | 66 | 79 |
| O REGISTERS, STORAGE DEVICES, AND
DIGITAL TO ANALOG CONVERTERS | 93 | 97 | 93 |
| P PHANTASTRONS, SCHNITT TRIGGERS, AND
CABLE FABRICATION | 64 | 63 | 64 |
| Q INPUT-OUTPUT DEVICES, PHOTO-SENSITIVE
DEVICES, AND SYNCHRONOUS VIBRATIONS | 61 | 60 | 64 |
| R INFRARED, LASERS, AND DISPLAY TUBES | 14 | 11 | 24 |
| S PROGRAMMING, DB AND POWER RATIOS | 81 | 81 | 80 |
| T | | | |
| U | | | |

TASK GROUP SUMMARY PERCENT MEMBERS PERFORMING

| | GP | SPC | SPC |
|--|-------|------|------|
| | .0017 | .024 | .025 |
| A 1 A1-01 DO YOU USE AN INSTRUMENT, SUCH AS METER OR AN OSCILLOSCOPE, IN WHICH IT IS NECESSARY TO AMPLIFY OR | 81 | 84 | 79 |
| A 2 A1-02 DO YOU USE A PUBLICATION, SUCH AS A TECHNICAL ORDER OR MAINTENANCE MANUAL, IN WHICH IT IS NECESSARY TO REARRANGE AND SOLVE FORMULAS OR EQUATIONS. | 41 | 40 | 40 |
| A 3 A1-03 DO YOU FIND THE SQUARE ROOT OF A QUANTITY. | 42 | 46 | 42 |
| A 4 A1-04 DO YOU SOLVE FOR UNKNOWN QUANTITY. | 30 | 23 | 37 |
| A 5 A1-05 DO YOU CONVERT NUMBERS TO LOGARITHMS. | 44 | 49 | 42 |
| A 6 A1-06 DO YOU USE LOGARITHMIC TABLES IN ANY TYPE OF CALCULATIONS. | 13 | 9 | 16 |
| A 7 A1-07 DO YOU SOLVE QUADRATIC EQUATIONS. | 6 | 14 | 14 |
| A 8 A1-08 DO YOU USE THE NATURAL SYSTEM OF LOGARITHMS (THIS IS THE LOGARITHM SYSTEM WHICH USES THE NUMBER 2.718 281 828 459 045 235 140 497 210 064 744 681 296 453 096 414 518 873 072 777 016 165 138 986 200 864 332 659 149 934 036 858 347 142 927 816 953 152 960 295 421 576 694 988 184 975 348 355 964 679 418 625 587 979 311 941 529 989 747 946 492 968 945 954 951 952 953 954 955 956 957 958 959 960 961 962 963 964 965 966 967 968 969 970 971 972 973 974 975 976 977 978 979 980 981 982 983 984 985 986 987 988 989 990 991 992 993 994 995 996 997 998 999) | 6 | 16 | 16 |
| A 9 A1-09 DO YOU WORK WITH VECTOR QUANTITIES, SUCH AS ADDING OR SUBTRACTING TWO VECTORS. | 28 | 24 | 28 |
| A 10 A1-10 DO YOU WORK WITH TRIGONOMETRIC FUNCTIONS SUCH AS SINE, COSINE, OR TANGENT. | 30 | 26 | 35 |
| A 11 A1-11 DO YOU DETERMINE AREAS OF PLANE FIGURES, SUCH AS AREAS OF CIRCLES OR TRIANGLES. | 12 | 3 | 16 |
| A 12 A1-12 DO YOU SOLVE OR USE SIMULTANEOUS EQUATIONS. | 13 | 9 | 19 |
| A 13 A1-13 DO YOU USE THE TERM VOLTAGE OR VOLT? | 34 | 31 | 35 |
| A 14 A1-14 DO YOU USE THE TERM ELECTROMOTIVE FORCE (EMF)? | 49 | 100 | 98 |
| A 15 A2-01 DO YOU USE THE TERM VOLTAGE OR VOLT? | 63 | 63 | 63 |
| A 16 A2-02 DO YOU USE THE TERM ELECTROMOTIVE FORCE (EMF). | 79 | 100 | 98 |
| A 17 A2-03 DO YOU USE THE TERM OHM. | 36 | 31 | 40 |
| A 18 A2-04 DO YOU USE THE TERM ION. | 22 | 23 | 23 |
| A 19 A2-05 DO YOU USE THE TERM DYNE. | 98 | 97 | 98 |
| A 20 A2-06 DO YOU USE THE TERM AMPERE. | 35 | 31 | 40 |
| A 21 A2-07 DO YOU USE THE TERM NEUTRON. | 35 | 37 | 35 |
| A 22 A2-08 DO YOU USE THE TERM COULOMB. | 34 | 31 | 37 |
| A 23 A2-09 DO YOU USE THE TERM PROTON. | 34 | 31 | 37 |
| A 24 A2-10 DO YOU WORK WITH RESISTORS IN YOUR PRESENT JOBS? | 63 | 63 | 63 |
| A 25 A3-02 DO YOU INSPECT RESISTORS. | 67 | 74 | 70 |
| A 26 A3-03 DO YOU CLEAN RESISTORS. | 63 | 69 | 66 |
| A 27 A3-04 DO YOU ADJUST RESISTORS. | 63 | 69 | 66 |
| A 28 A3-05 DO YOU CHECK OMNIC VALUE OF RESISTORS. | 67 | 69 | 66 |
| A 29 A3-06 DO YOU REMOVE OR REPLACE RESISTORS. | 87 | 91 | 89 |
| A 30 A3-07 DO YOU USE OR REFER TO TEMPERATURE COEFFICIENTS FOR RESISTORS ON ANY TASKS IN YOUR PRESENT JOB. | 96 | 96 | 91 |
| A 31 A3-08 DO YOU USE OR REFER TO RESISTOR SYMBOLS, SUCH AS WORK WITH A CARBON, FIXED WIRE, SLIDE TAP, WHEN ASSEMBLING OR | 95 | 97 | 93 |
| A 32 A3-09 DO YOU IDENTIFY OR CLASSIFY THE RESISTORS | 87 | 87 | 88 |

DRAFT

| | SPC | SPC | SPC | SPC |
|---|------|-----|-----|-----|
| | 0017 | 024 | 025 | 025 |
| A 33 A3-10 DO YOU USE RESISTOR COLOR CODES WHICH INDICATE THE OHMIC VALUE OF RESISTANCE. | 91 | 91 | 91 | 91 |
| A 34 A3-11 DO YOU USE RESISTOR COLOR CODES WHICH INDICATE THE TOLERANCE OF RESISTORS | 88 | 88 | 88 | 88 |
| A 35 A3-12 DO YOU USE RESISTOR COLOR CODES WHICH INDICATE THE FAILURE RATE OF RESISTORS. | 14 | 14 | 14 | 14 |
| A 36 A3-13 DO YOU MAKE DECISIONS WHICH YOU MUST DETERMINE HOW TWO OR MORE BATTERIES MUST BE CONNECTED TOGETHER TO REPRESENT ANY OF THE FOLLOWING COMBINATIONS: BATTERY, RESISTIVE CIRCUITS. | 31 | 31 | 31 | 31 |
| A 37 A3-14 DO YOU USE OR REFER TO THE SCHEMATIC SYMBOLS WHICH REPRESENT TOTAL RESISTANCE FOR SERIES | 98 | 98 | 98 | 98 |
| A 38 A3-15 DO YOU CALCULATE TOTAL RESISTANCE FOR SERIES RESISTIVE CIRCUITS. | 60 | 60 | 60 | 60 |
| A 39 A3-16 DO YOU CALCULATE TOTAL CURRENT FOR SERIES RESISTIVE CIRCUITS. | 57 | 57 | 57 | 57 |
| A 40 A3-17 DO YOU CALCULATE INDIVIDUAL VOLTAGE DROPS FOR SERIES RESISTIVE CIRCUITS. | 63 | 63 | 63 | 63 |
| A 41 A3-18 DO YOU CALCULATE POWER DISSIPATION FOR SERIES RESISTIVE CIRCUITS. | 53 | 53 | 53 | 53 |
| A 42 A3-19 DO YOU CALCULATE TOTAL RESISTANCE FOR SERIES PARALLEL RESISTIVE CIRCUITS. | 60 | 60 | 60 | 60 |
| A 43 A3-20 DO YOU CALCULATE TOTAL CURRENT FOR SERIES PARALLEL RESISTIVE CIRCUITS. | 60 | 60 | 60 | 60 |
| A 44 A3-21 DO YOU CALCULATE INDIVIDUAL VOLTAGE DROPS FOR SERIES PARALLEL RESISTIVE CIRCUITS. | 51 | 51 | 51 | 51 |
| A 45 A3-22 DO YOU CALCULATE INDIVIDUAL BRANCH CURRENTS FOR SERIES PARALLEL RESISTIVE CIRCUITS. | 56 | 56 | 56 | 56 |
| A 46 A3-23 DO YOU CALCULATE POWER DISSIPATION FOR SERIES PARALLEL RESISTIVE CIRCUITS. | 51 | 51 | 51 | 51 |
| A 47 A3-24 DO YOU CALCULATE TOTAL RESISTANCE FOR PARALLEL RESISTIVE CIRCUITS. | 60 | 60 | 60 | 60 |
| * A 48 A3-25 DO YOU CALCULATE TOTAL CURRENT FOR PARALLEL RESISTIVE CIRCUITS. | 60 | 60 | 60 | 60 |
| A 49 A3-26 DO YOU CALCULATE INDIVIDUAL VOLTAGE DROPS FOR PARALLEL RESISTIVE CIRCUITS. | 60 | 60 | 60 | 60 |
| A 50 A3-27 DO YOU CALCULATE INDIVIDUAL BRANCH CURRENTS FOR PARALLEL RESISTIVE CIRCUITS. | 53 | 53 | 53 | 53 |
| A 51 A3-28 DO YOU CALCULATE POWER DISSIPATION FOR PARALLEL RESISTIVE CIRCUITS. | 53 | 53 | 53 | 53 |
| A 52 A3-29 DO YOU MEASURE RESISTANCE. | 81 | 81 | 81 | 81 |
| B 53 B1-01 DO YOU REPAIR AN AMMETER. | 9 | 9 | 9 | 9 |
| B 54 B1-02 DO YOU MEASURE VOLTAGE. | 81 | 81 | 81 | 81 |
| B 55 B1-03 DO YOU REPAIR A VOLTMETER. | 9 | 9 | 9 | 9 |
| B 56 B1-04 DO YOU REPAIR AN AMMETER. | 6 | 6 | 6 | 6 |
| B 57 B1-05 DO YOU MEASURE CURRENT. | 12 | 12 | 12 | 12 |
| B 58 B1-06 DO YOU USE A MULTIMETER. | 71 | 71 | 71 | 71 |
| B 59 B1-07 DO YOU USE A VOM. | 61 | 61 | 61 | 61 |

TASK GROUP SUMMARY PERCENT MEASURES OF PERFORMING

S-1
EXPOSURE PAGE
MAINTENANCE
338XC 30630 3387C

151-8

PCT MORS ANSWERS YES FOR MAINT. DATA SC. 625.
 TASK GROUP SUMMARY
 PERCENT MEMBERS PERFORMING

MPSUN2 PAGE 55
 MAINTENANCE
 368X0 30830 30870

| | TOY-TSK. | GP | SPC | SPC |
|---|--|------|-----|-----|
| | | 0017 | 024 | 025 |
| B | 88 C1-22 DO YOU USE OR REFER TO THE GENERAL RULE THAT INDUCTIVE REACTANCE IS DIRECTLY PROPORTIONAL TO POWER INDUCTORS. | 37 | 29 | 44 |
| B | 89 C1-23 DO YOU WORK WITH POWER INDUCTORS. | 42 | 37 | 47 |
| B | 90 C1-24 DO YOU WORK WITH AUDIO FREQUENCY INDUCTORS. | 45 | 37 | 49 |
| B | 91 C1-25 DO YOU WORK WITH RADIO FREQUENCY INDUCTORS. | 76 | 80 | 70 |
| C | 92 C1-26 DO YOU WORK WITH CAPACITORS ON CIRCUITS CONTAINING CAPACITORS ON YOUR PRESENT JOB. | 93 | 100 | 95 |
| C | 93 C1-02 DO YOU INSPECT CAPACITORS. | 73 | 84 | 77 |
| C | 94 C1-03 DO YOU CLEAN CAPACITORS. | 56 | 66 | 58 |
| C | 95 C1-04 DO YOU ADJUST CAPACITORS. | 75 | 86 | 70 |
| C | 96 C1-05 DO YOU TEST CAPACITORS. | 71 | 80 | 67 |
| C | 97 C1-06 DO YOU DISCHARGE CAPACITORS. | 69 | 69 | 77 |
| C | 98 C1-07 DO YOU REMOVE OR REPLACE CAPACITORS. | 64 | 91 | 61 |
| C | 99 C1-08 DO YOU USE OR REFER TO DISTRIBUTED CAPACITANCE. | 29 | 20 | 35 |
| C | 100 C1-09 DO YOU USE OR REFER TO ORBITAL STRESS OF ELECTRONS IN A DIELECTRIC. | 2 | 0 | 5 |
| C | 101 C1-10 DO YOU USE OR REFER TO FARADS, MICROFARADS, OR PICOFARADS. | 90 | 89 | 93 |
| C | 102 C1-11 DO YOU USE OR REFER TO CAPACITANCE. | 86 | 77 | 93 |
| C | 103 C1-12 DO YOU USE OR REFER TO DIELECTRIC CONSTANT. | 16 | 14 | 16 |
| C | 104 C1-13 DO YOU USE OR REFER TO WORKING VOLTAGE RATING OF CAPACITORS. | 67 | 54 | 79 |
| C | 105 C1-14 DO YOU USE OR REFER TO CAPACITIVE REACTANCE. | 39 | 34 | 42 |
| C | 106 C1-15 DO YOU USE OR REFER TO CAPACITOR COLOR CODES. | 42 | 31 | 53 |
| C | 107 C1-16 THE CAPACITORS YOU WORK WITH IN DC CIRCUITS. | 76 | 86 | 72 |
| C | 108 C1-17 THE CAPACITORS YOU WORK WITH ARE IN AC CIRCUITS. | 70 | 80 | 67 |
| C | 109 C1-18 THE CAPACITORS YOU WORK WITH ARE IN CIRCUITS WITH BOTH DC AND AC. | 87 | 86 | 88 |
| C | 110 C1-19 THE CAPACITORS YOU WORK WITH ARE DON'T REMEMBER WHICH CIRCUITS. | 9 | 3 | 2 |
| C | 111 C1-20 DO YOU CALCULATE CAPACITANCE FOR A PARTICULAR CONNECTION-TEST FORMULAS. | 10 | 6 | 12 |
| C | 112 C1-21 DO YOU USE OR REFER TO THE GENERAL RULE THAT THE CAPACITANCE OF A CAPACITOR IS DIRECTLY PROPORTIONAL TO THE CAPACITANCE OF A CAPACITOR IN INVERSELY PROPORTIONAL CIRCUITS. | 10 | 9 | 12 |
| C | 113 C1-22 DO YOU USE OR REFER TO THE GENERAL RULE THAT THE CAPACITANCE OF A CAPACITOR IS INVERSELY PROPORTIONAL TO THE TOTAL CAPACITANCE OF CAPACITORS IN SERIES. | 12 | 9 | 14 |
| C | 114 C1-23 DO YOU CALCULATE THE TOTAL CAPACITANCE OF CAPACITORS IN PARALLEL. | 36 | 23 | 97 |
| C | 115 C1-24 DO YOU CALCULATE THE TOTAL CAPACITANCE OF CAPACITORS IN PARALLEL. | 35 | 20 | 47 |
| C | 116 C1-25 DO YOU CALCULATE THE TOTAL CAPACITANCE OF CAPACITORS IN SERIES-PARALLEL CIRCUITS. | 29 | 23 | 33 |
| C | 117 C1-26 DO YOU USE OR REFER TO THE GENERAL RULE THAT CURRENT DOES NOT FLOW THROUGH CAPACITORS, IF ONLY | 92 | 90 | 44 |

PCT MEMBERS ANSWERING YES FOR MAINT DAFSEC GPS
 TASK GROUP SUMMARY
 PERCENT MEMBERS PERFORMING

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- C 110 C1-27 DO YOU USE OR REFER TO THE GENERAL RULE THAT CURRENT LEADS VOLTAGE IN AC CAPACITOR CIRCUITS.
- C 111 C1-28 DO YOU USE OR REFER TO THE GENERAL RULE THAT CAPACITIVE REACTANCE IS INVERSELY PROPORTIONAL TO C 120 C1-29 DO YOU CALCULATE CAPACITIVE REACTANCE.
- C 121 C1-30 DO YOU WORK WITH MOTOR-SATOR CAPACITORS (VARIABLE)?
- C 122 C1-31 DO YOU WORK WITH COMPRESSION (TRIMMER) CAPACITORS.
- C 123 C1-32 DO YOU WORK WITH ELECTROLYTIC CAPACITORS (FIXED).
- C 124 C1-33 DO YOU WORK WITH PAPER CAPACITORS (FIXED).
- C 125 C1-34 DO YOU WORK WITH MICA CAPACITORS (FIXED).
- C 126 C1-35 DO YOU WORK WITH CERAMIC CAPACITORS (FIXED).
- C 127 C1-36 DO YOU WORK WITH DON'T REMEMBER WHICH TYPE OF CAPACITORS.
- C 128 C2-01 DO YOU WORK WITH TRANSFORMERS ON YOUR PRESENT JOB.
- C 129 C2-02 DO YOU INSPECT TRANSFORMERS.
- C 130 C2-03 DO YOU CLEAN TRANSFORMERS.
- C 131 C2-04 DO YOU ADJUST TRANSFORMERS.
- C 132 C2-05 DO YOU TROUBLESHOOT TRANSFORMERS.
- C 133 C2-06 DO YOU REMOVE OR REPLACE COMPLETE TRANSFORMERS.
- C 134 C2-07 DO YOU REMOVE OR REPLACE TRANSFORMER PARTS, SUCH AS THE PRIMARY WINDING.
- C 135 C2-08 DO YOU MAKE A DISTINCTION BETWEEN MUTUAL INDUCTION AND MUTUAL INDUCTANCE (MI).
- C 136 C2-09 DO YOU USE THE SYMBOL FOR MUTUAL INDUCTANCE, M .
- C 137 C2-10 DO YOU REFER TO OR USE THE COEFFICIENT OF COUPLING WHEN WORKING WITH TRANSFORMERS.
- C 138 C2-11 DO YOU CALCULATE TURNS RATIOS FOR TRANSFORMERS USING CURRENT OR VOLTAGE RATIOS.
- C 139 C2-12 DO YOU REFER TO REFLECTED IMPEDANCE WHEN WORKING WITH TRANSFORMERS.
- C 140 C2-13 DO YOU CALCULATE IMPEDANCE INTERACTIONS FOR TRANSFORMERS.
- C 141 C2-14 DO YOU WORK WITH AUTOTRANSFORMERS.
- C 142 C2-15 DO YOU WORK WITH POWER TRANSFORMERS.
- C 143 C2-16 DO YOU WORK WITH AUDIO TRANSFORMERS.
- C 144 C2-17 DO YOU WORK WITH RADIO FREQUENCY TRANSFORMERS.
- C 145 C2-18 DO YOU WORK WITH DON'T REMEMBER WHAT TYPE OF TRANSFORMER.
- C 146 C2-19 DO YOU CHECK TRANSFORMERS FOR OPEN WINDINGS BY MEASURING RESISTANCE.
- C 147 C2-20 DO YOU CHECK TRANSFORMERS FOR SHORTED WINDINGS BY MEASURING RESISTANCE.
- C 148 C2-21 DO YOU CHECK TRANSFORMERS FOR SHORTED WINDINGS BY MEASURING OUTPUT VOLTAGES.
- C 149 C2-22 DO YOU MEASURE RESISTANCE OF TRANSFORMER WINDINGS TO DETERMINE WHETHER A TRANSFORMER HAS A STEP-UP OR

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- C 150 C2-23 DO YOU MEASURE OUTPUT VOLTAGE OF TRANSFORMERS TO DETERMINE WHETHER A TRANSFORMER HAS A STEP-UP OR STEP-DOWN SYMBOL FOR TRANSFORMERS.
- C 151 C2-24 DO YOU REFER TO THE BASIC TRANSFORMER SCHEMATIC SYMBOLS FOR TRANSFORMERS.
- C 152 C2-25 DO YOU REFER TO THE MULTIPLE SECONDARY-WINDINGS SCHEMATIC SYMBOLS FOR TRANSFORMERS.
- C 153 C2-26 DO YOU REFER TO THE MULTIPLE TAP SCHEMATIC SYMBOLS FOR TRANSFORMERS.
- C 154 C2-27 DO YOU REFER TO THE CENTER TAP SCHEMATIC SYMBOLS FOR TRANSFORMERS.
- C 155 C2-28 DO YOU REFER TO THE AIR CORE SCHEMATIC SYMBOLS FOR TRANSFORMERS.
- C 156 C2-29 DO YOU REFER TO THE IRON CORE SCHEMATIC SYMBOLS FOR TRANSFORMERS.
- C 157 C2-30 DO YOU REFER TO THE COMBINATIONS OF THE ABOVE SCHEMATIC SYMBOLS FOR TRANSFORMERS.
- C 158 C2-31 DO YOU DETERMINE PHASE RELATIONSHIPS BETWEEN SECONDARY AND PRIMARY VOLTAGES OF TRANSFORMERS USING C 159 C2-32 DO YOU DETERMINE OR REFER TO THE TYPE OF CORE IN TRANSFORMERS YOU WORK WITH.
- C 160 C2-33 DO YOU REFER TO OR USE THE GENERAL RULE THAT THE TURNS RATIO OF A TRANSFORMER IS EQUAL TO THE VOLTAGE RATIO OF YOUR USE OR REFER TO STEP-UP OR STEP-DOWN RATIOS FOR TRANSFORMERS.
- C 162 C2-35 DO YOU CALCULATE VOLTAGE RATIOS FOR TRANSFORMERS USING TURNS RATIOS.
- C 163 C2-36 DO YOU CALCULATE CURRENT RATIOS FOR TRANSFORMERS USING TURNS RATIOS.
- C 164 C2-37 DOES YOUR JOB INVOLVE ANY TASKS DEALING WITH 3 PHASE TRANSFORMERS.
- C 165 C2-38 DO YOU INSPECT 3 PHASE TRANSFORMERS.
- C 166 C2-39 DO YOU CLEAN OR LUBRICATE 3 PHASE TRANSFORMERS.
- C 167 C2-40 DO YOU ADJUST 3 PHASE TRANSFORMERS.
- C 168 C2-41 DO YOU TROUBLESHOOT 3 PHASE TRANSFORMERS.
- C 169 C2-42 DO YOU REMOVE OR REPLACE COMPLETE 3 PHASE TRANSFORMER.
- C 170 C2-43 DO YOU REMOVE OR REPLACE 3 PHASE TRANSFORMER PARTS, SUCH AS A WINDING.
- C 171 C3-01 DO YOU USE OR REFER TO PERMANENT MAGNETS.
- C 172 C3-02 DO YOU USE OR REFER TO TEMPORARY MAGNETS.
- C 173 C3-03 DO YOU USE OR REFER TO RETENTIVITY OF MAGNETIC MATERIALS.
- C 174 C3-04 DO YOU USE OR REFER TO RELUCTANCE OF MAGNETIC MATERIALS.

MODULE 13 - MAGNETISM

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PCT MEMBERS ANSWER YES FOR MAINT DAFSC GPS
 TASK GROUP SUMMARY
 PERCENT MEMBERS PERFORMING

- GPSUM7 PAGE - 50
 MAINTENANCE
 DRAFT 30810 3C870

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GP SPC SPC
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- C 175 CJ-05 DO YOU USE OR REFER TO PLANEABILITY OF MAGNETIC MATERIALS.
 C 176 CJ-06 DO YOU USE OR REFER TO RESIDUAL MAGNETISM.
 C 177 CJ-07 DO YOU USE OR REFER TO MAGNETIC LINES OF FORCE OR FLUX.
 C 178 CJ-08 DO YOU USE OR REFER TO WEBER'S THEORY OF MAGNETISM.
 C 179 CJ-09 DO YOU USE OR REFER TO THE DOMAIN THEORY OF MAGNETISM.
 C 180 CJ-10 DO YOU USE OR REFER TO MAGNETIC INDUCTION.
 C 181 CJ-11 DO YOU USE OR REFER TO FLUX DENSITY.
 C 182 CJ-12 DO YOU USE OR REFER TO THE GENERAL RULE THAT FOR MAGNETIC POLES, LIKE POLES REPEL AND UNLIKE POLES ATTRACT.
 C 183 CJ-13 DO YOU USE THE LEFT HAND THUMB RULE TO FIND THE DIRECTION OF MAGNETIC FIELDS ABOUT STRAIGHT WIRES.
 C 184 CJ-14 DO YOU USE THE LEFT THUMB RULE TO FIND THE NORTH POLE OF A CURRENT CARRYING COIL.

D 185 DT-01 DO YOU WORK WITH RC, LN, OR RCL CIRCUITS ON YOUR PRESENT JOB.

- D 186 DI-02 DO YOU USE OR REFER TO VECTORS WHEN WORKING WITH RCL CIRCUITS.
 D 187 DI-03 DO YOU USE OR REFER TO PYTHAGOREAN THEOREM WHEN WORKING WITH RCL CIRCUITS.
D 188 DT-04 DO YOU USE OR REFER TO SINE WHEN WORKING WITH RCL CIRCUITS.
 D 189 GI-05 DO YOU USE OR REFER TO COSINE WHEN WORKING WITH RCL CIRCUITS.
 D 190 GI-06 DO YOU USE OR REFER TO TANGENT WHEN WORKING WITH RCL CIRCUITS.
 D 191 DT-07 DO YOU USE OR REFER TO WATTS WHEN WORKING WITH RCL CIRCUITS.
 D 192 DI-08 DO YOU USE OR REFER TO TRUE POWER (PT) WHEN WORKING WITH RCL CIRCUITS.
 D 193 DI-09 DO YOU USE OR REFER TO MAXIMUM POWER (PM) WHEN WORKING WITH RCL CIRCUITS.
D 194 DT-10 DO YOU USE OR REFER TO AVERAGE POWER (PAVE) WHEN WORKING WITH RCL CIRCUITS.
 D 195 GI-11 DO YOU USE OR REFER TO APPARENT POWER (PA) WHEN WORKING WITH RCL CIRCUITS.
 D 196 DI-12 DO YOU USE OR REFER TO POWER FACTOR (PF) WHEN WORKING WITH RCL CIRCUITS.
D 197 DI-13 DO YOU USE OR REFER TO RESONANT CIRCUITS WHEN WORKING WITH RCL CIRCUITS.
 D 198 GI-14 DO YOU USE OR REFER TO BANDWIDTH WHEN WORKING WITH RCL CIRCUITS.
 D 199 DI-15 DO YOU USE OR REFER TO SELECTIVITY WHEN WORKING WITH RCL CIRCUITS.

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 TASK GROUP SUMMARY
 PERCENT MEMBERS PERFORMING

MAINTENANCE

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GP SPC SPC
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- D 200 DI-14 DO YOU USE OR REFER TO RESONANT FREQUENCY WHEN WORKING WITH RCL CIRCUITS. 60 52 47
- D 201 DI-17 DO YOU USE OR REFER TO HALF POWER POINTS WHEN WORKING WITH RCL CIRCUITS. 35 23 47
- D 202 DI-18 DO YOU USE OR REFER TO BANDPASS REGION WHEN WORKING WITH RCL CIRCUITS. 51 40 40
- D 203 DI-19 DO YOU USE OR REFER TO CIRCUIT Q WHEN WORKING WITH RCL CIRCUITS. 22 19 26
- D 204 DI-20 DO YOU USE OR REFER TO TANK CIRCUITS WHEN WORKING WITH RCL CIRCUITS. 52 43 50
- D 205 DI-21 DO YOU DETERMINE VALUES OF TRIGONOMETRIC FUNCTIONS USING FORMULAS: SINE OF AN ANGLE = OPPOSITE SIDE / HYPOTENUSE. 10 3 19
- D 206 DI-22 DO YOU DRAW VOLTAGE, CURRENT, OR IMPEDANCE VECTOR DIAGRAMS FOR CIRCUITS. 7 6 9
- D 207 DI-23 DO YOU CALCULATE TOTAL IMPEDANCE FOR CAPACITIVE CIRCUITS. 13 11 12
- D 208 DI-24 DO YOU CALCULATE PHASE ANGLES BETWEEN IMPEDANCE AND RESISTANCE IN CAPACITIVE CIRCUITS. 4 0 7
- D 209 DI-25 DO YOU CALCULATE TOTAL IMPEDANCE FOR SERIES RCL CIRCUITS. 12 11 9
- D 210 DI-26 DO YOU CALCULATE IMPEDANCE ANGLES FOR SERIES RCL CIRCUITS. 5 3 5
- D 211 DI-27 DO YOU CALCULATE APPARENT POWER (PAP) FOR SERIES RCL CIRCUITS. 4 0 9
- D 212 DI-28 DO YOU CALCULATE TRUE POWER (PT) FOR SERIES RCL CIRCUITS. 10 4 12
- D 213 DI-29 DO YOU CALCULATE POWER FACTORS (PF) FOR SERIES RCL CIRCUITS. 4 0 9
- D 214 DI-30 DO YOU CALCULATE TOTAL CURRENT FOR PARALLEL RCL CIRCUITS. 10 4 12
- D 215 DI-31 DO YOU CALCULATE IMPEDANCE ANGLES FOR PARALLEL RCL CIRCUITS. 4 0 5
- D 216 DI-32 DO YOU CALCULATE TOTAL IMPEDANCE FOR PARALLEL RCL CIRCUITS USING THE ASSURED VOLTAGE METHOD. 8 9 7
- D 217 DI-33 DO YOU CALCULATE TOTAL IMPEDANCE FOR PARALLEL RCL CIRCUITS USING OHM'S LAW. 8 9 7
- D 218 DI-34 DO YOU CHECK CAPACITORS USING OHMMETERS. 64 69 63
- D 219 DI-35 DO YOU CHECK CAPACITORS USING SUBSTITUTION. 55 37 51
- D 220 DI-36 DO YOU CHECK INDUCTORS USING OHMMETERS. 66 63 60
- D 221 DI-37 DO YOU CHECK INDUCTORS USING SUBSTITUTION. 36 29 44
- D 222 DI-38 DO YOU USE OR REFER TO THE GENERAL RULE THAT $\Theta = 90^\circ - \Phi$ FOR RESONANT CIRCUITS. 4 3 5
- D 223 DI-39 DO YOU CALCULATE RESONANT FREQUENCIES FOR RCL CIRCUITS. 19 11 23
- D 224 DI-40 DO YOU USE OR REFER TO THE GENERAL RULE THAT IMPEDANCE IS MINIMUM AND CURRENT MAXIMUM AT THE

MAINTENANCE

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PCT MORS ANSWERS FOR MAINT DAFSS GPS
 TASK GROUP SUMMARY
 PERCENT MEMBERS PERFORMING

SPSUMZ PAGE - 46
 MAINTENANCE
 308 32230 30670

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| D 225 D1-41 DO YOU USE OR REFER TO THE GENERAL RULE THAT LINE CURRENT IS MINIMUM AND IMPEDANCE MAXIMUM AT HALF POWER POINTS ARE AT 70.7 PERCENT OF THE PEAK | 22 | 14 | 24 |
| D 226 D1-42 DO YOU USE OR REFER TO THE GENERAL RULE THAT HALF POWER POINTS ARE AT 70.7 PERCENT OF THE PEAK | 33 | 29 | 37 |
| D 227 D1-43 DO YOU USE OR REFER TO THE GENERAL RULE THAT BANDWIDTH IS INVERSELY PROPORTIONAL TO Q. | 23 | 20 | 26 |
| D 228 D1-44 DO YOU DETERMINE HOW CHANGES IN FREQUENCY, RESISTANCE, CAPACITANCE, OR INDUCTANCE WILL AFFECT | 19 | 11 | 23 |
| D 229 D2-01 IN YOUR PRESENT JOB, DO YOU WORK WITH USE, OR REFER TO SERIES OR PARALLEL RESONANCE CIRCUITS OR | 49 | 34 | 43 |
| J 230 D2-02 DO YOU WORK WITH USE, OR REFER TO TIME CONSTANTS | 4 | 31 | 51 |
| J 231 D2-03 DO YOU WORK WITH USE, OR REFER TO AVAILABLE VOLTAGE, | 20 | 14 | 28 |
| J 232 D2-04 DO YOU WORK WITH USE, OR REFER TO TRANSIENT INTERVALS. | 18 | 6 | 1 |
| J 233 D2-05 DO YOU USE OR REFER TO THE GENERAL RULE THAT A CAPACITOR IS FULLY CHARGED (OR DISCHARGED) AFTER FIVE CHARTS. | 26 | 20 | 35 |
| J 234 D2-06 DO YOU USE OR REFER TO UNIVERSAL TIME CONSTANT CHARTS. | 12 | 6 | 16 |
| D 235 D2-07 DO YOU USE EQUATIONS OR FORMULAS TO DETERMINE CIRCUITS CURRENT OR COMPONENT VOLTAGES AFTER A | 17 | 14 | 16 |
| J 236 D2-08 DO YOU USE EQUATIONS OR FORMULAS TO DETERMINE THE TIME REQUIRED FOR CIRCUIT CURRENT OR COMPONENT | 18 | 9 | 23 |
| J 237 D2-09 DO YOU USE EQUATIONS OR FORMULAS TO DETERMINE COMPONENT VALUES REQUIRED FOR CIRCUIT CURRENT AND | 12 | 9 | 14 |
| J 238 D2-10 DO YOU USE OR REFER TO THE GENERAL RULE THAT CURRENT IN LR CIRCUITS REACHES ITS MINIMUM VALUE (ON | 16 | 11 | 19 |
| J 239 D3-01 DO YOU WORK WITH CIRCUITS USED AS FILTERS ON YOUR PRESENT JOB. | 86 | 91 | 61 |
| J 240 D3-02 DO YOU INSPECT FILTER CIRCUITS. | 64 | 69 | 63 |
| C 241 D3-03 DO YOU CLEAN FILTER CIRCUITS. | 51 | 54 | 53 |
| C 242 D3-04 DO YOU ALIGN OR ADJUST FILTER CIRCUITS. | 48 | 63 | 40 |
| D 243 D3-05 DO YOU TROUBLESHOOT TO THE FILTER CIRCUIT. | 59 | 69 | 56 |
| C 244 D3-06 DO YOU TROUBLESHOOT TO COMPONENT PARTS OF FILTER CIRCUITS. | 61 | 66 | 63 |
| J 245 D3-07 DO YOU REMOVE OR REPLACE THE COMPLETE FILTER CIRCUIT. | 54 | 64 | 53 |

PCT ANSWER SHEET FOR MAINTENANCE TESTS
TASK GROUP SUMMARY
PERCENT MEMBERS PERFORMING

MAINTENANCE
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- D 244 D3-08 DO YOU REMOVE OR REPLACE COMPONENT PARTS OF FILTER CIRCUITS. 61 71 54
- D 245 D3-09 DO YOU WORK ON LOW PASS FILTERS. 72 66 79
- D 246 D3-10 DO YOU WORK ON HIGH PASS FILTERS. 71 69 77
- D 247 D3-11 DO YOU WORK ON BANDPASS FILTERS. 62 63 84
- D 250 D3-12 DO YOU WORK ON QUADRATIC FILTER CONFIGURATIONS. 66 57 58
- D 251 D3-13 DO YOU WORK WITH L-SECTION FILTER CONFIGURATIONS. 66 49 50
- D 252 D3-14 DO YOU WORK WITH T-SECTION FILTER CONFIGURATIONS. 56 46 51
- D 253 D3-15 DO YOU WORK WITH T-SECTION FILTER CONFIGURATIONS. 59 51 55
- D 254 D3-16 DO YOU WORK WITH PI-SECTION FILTER CONFIGURATIONS. 61 57 67
- D 255 D3-17 DO YOU WORK WITH DON'T REMEMBER WHICH TYPE OF FILTER CONFIGURATIONS. 20 36 9
- O 256 D3-18 ARE PARALLEL RESONANT CIRCUITS USED IN FILTERS. 52 40 63
- O 257 D3-19 ARE SERIES-PARALLEL CIRCUITS USED IN FILTERS. 57 46 65
- O 258 D3-20 ARE SERIES RESONANT CIRCUITS USED IN FILTERS. 58 34 60
- O 259 D3-21 ARE DON'T REMEMBER WHICH TYPE OF BASIC CIRCUIT USED IN FILTERS YOU WORK WITH. 26 40 14
- O 260 D3-22 DO YOU USE EQUATIONS OR FORMULAS TO DETERMINE CAPACITANCE OR INDUCTANCE VALUES REQUIRED FOR SPECIFIC CIRCUITS.
- E 261 E1-01 DO YOU WORK WITH COUPLED LINE COUPLING DEVICES OR YOUR PRESENT JOB. 69 38 86
- E 262 E1-02 DO YOU IDENTIFY ON SCHEMATIC DIAGRAMS AND RELATE TO THE ACTUAL CIRCUITY THE COMPONENTS ASSOCIATED WITH THESE COUPLED COUPLING DEVICES.
- E 263 E1-03 DO YOU IDENTIFY ON SCHEMATIC DIAGRAMS AND RELATE TO THE ACTUAL CIRCUITY THE COMPONENTS ASSOCIATED WITH THESE COUPLED COUPLING DEVICES.
- E 264 E1-04 DO YOU IDENTIFY ON SCHEMATIC DIAGRAMS AND RELATE TO THE ACTUAL CIRCUITY THE COMPONENTS ASSOCIATED WITH THESE COUPLED COUPLING DEVICES.
- E 265 E1-05 DO YOU TROUBLESHOOT CIRCUITS WHICH HAVE COMPONENTS WHICH PERFORM THE RC COUPLING FUNCTIONS.
- E 266 E1-06 DO YOU WORK WITH DIODES-CAPACITIVE-RESISTIVE COUPLED CIRCUITS.
- E 267 E1-07 DO YOU TROUBLESHOOT CIRCUITS WHICH HAVE COMPONENTS WHICH PERFORM THE TRANSISTOR-CAPACITIVE COUPLED CIRCUITS.
- E 268 E1-08 DO YOU WORK WITH DIODES-CAPACITIVE COUPLED CIRCUITS.
- E 269 E1-09 DO YOU WORK WITH CAPACITIVE-INDUCTIVE COUPLED CIRCUITS.
- E 270 E1-10 DO YOU WORK WITH CAPACITIVE-INDUCTIVE COUPLED CIRCUITS.
- E 271 E1-11 DO YOU WORK WITH TRANSFORMER-COUPLED CIRCUITS.
- E 272 E1-12 DO YOU WORK WITH DON'T REMEMBER WHICH TYPE OF COUPLED CIRCUITS.

MODULE 28 - COUPLING

PCJ MEMBERS ANSWER YES FOR MAINTAINANCE GPS
 TASK GROUP SUMMARY
 PERCENT MEMBERS PERFORMING

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| E 273 | E 2-01 ON YOUR PRESENT JOB DO YOU PERFORM SOLDERING TECHNIQUES OR INSPECT OR EVALUATE SOLDERED CONNECTIONS. | 86 | 89 | 84 |
| E 274 | E 2-02 DO YOU SELECT TYPE OF SOLDER TO USE. | 73 | 80 | 70 |
| E 275 | E 2-03 DO YOU ADD FLUX TO CONNECTIONS. | 72 | 86 | 63 |
| E 276 | E 2-04 DO YOU CLEAN CONNECTIONS USING SOLVENTS. | 61 | 86 | 77 |
| E 277 | E 2-05 DO YOU STRIP INSULATION FROM WIRES. | 64 | 91 | 79 |
| E 278 | E 2-06 DO YOU CONNECT OR DISCONNECT HEAT SINKS. | 82 | 86 | 79 |
| E 279 | E 2-07 DO YOU BEND OR SHAPE WIRES OR LEADS. | 84 | 91 | 79 |
| E 280 | E 2-08 CUT WIRES. | 53 | 89 | 79 |
| E 281 | E 2-09 FILE OR SHAPE SOLDERING IRON TIPS. | 73 | 77 | 67 |
| E 282 | E 2-10 DO YOU TIN SOLDERING IRON TIPS. | 82 | 86 | 79 |
| E 283 | E 2-11 DO YOU CLEAN SOLDERING IRON TIPS. | 82 | 86 | 79 |
| E 284 | E 2-12 DO YOU CLEAN ELECTRICAL SURFACES USING ERASERS. | 61 | 89 | 71 |
| E 285 | E 2-13 DO YOU TIN ON PLATE-TIN CONDUCTORS. | 63 | 89 | 79 |
| E 286 | E 2-14 DO YOU INSPECT SOLDERED CONNECTIONS. | 66 | 89 | 84 |
| E 287 | E 2-15 DO YOU DESOLDER CONNECTIONS BY WICKING. | 77 | 89 | 67 |
| E 288 | E 2-16 DO YOU DESOLDER CONNECTIONS USING VACUUM DESOLDERING TOOLS. | 76 | 74 | 77 |
| E 289 | E 2-17 DO YOU CUT COMPONENT LEADS TO REMOVE COMPONENTS. | 76 | 77 | 77 |
| E 290 | E 2-18 DO YOU CRUSH COMPONENTS FOR REMOVAL. | 25 | 17 | 33 |
| E 291 | E 2-19 DO YOU MAKE HAROWIRE TURRET CONNECTIONS. | 59 | 43 | 56 |
| E 292 | E 2-20 DO YOU MAKE HAROWIRE BIFURCATED CONNECTIONS. | 92 | 49 | 57 |
| E 293 | E 2-21 DO YOU MAKE PRINTED CIRCUIT BOARD TURRET CONNECTIONS. | 70 | 71 | 67 |
| E 294 | E 2-22 DO YOU MAKE PRINTED CIRCUIT BOARD BIFURCATED CONNECTIONS. | 99 | 57 | 42 |
| E 295 | E 2-23 DO YOU MAKE PRINTED CIRCUIT BOARD TERMINAL PADS. | 71 | 74 | 67 |
| E 296 | E 2-24 DO YOU SOLDER PASSIVE COMPONENTS SUCH AS RESISTORS OR CAPACITORS ON PRINTED CIRCUIT BOARDS. | 83 | 89 | 79 |
| E 297 | E 2-25 DO YOU SOLDER ACTIVE COMPONENTS SUCH AS SÓLID STATE DIODES OR TRANSISTORS ON PRINTED CIRCUIT BOARDS. | 84 | 91 | 79 |
| E 298 | E 3-01 DO YOU WORK WITH RELAYS ON YOUR PRESENT JOB. | 95 | 97 | 93 |
| E 299 | E 3-02 DO YOU ADJUST RELAYS. | 36 | 37 | 37 |
| E 300 | E 3-03 DO YOU CLEAN RELAYS. | 64 | 77 | 56 |
| E 301 | E 3-04 DO YOU INSPECT RELAYS. | 76 | 86 | 74 |
| E 302 | E 3-05 DO YOU REMOVE OR REPLACE COMPLETE RELAY. | 60 | 89 | 72 |
| E 303 | E 3-06 DO YOU REMOVE OR REPLACE PARTS OF RELAY. | 19 | 14 | 23 |
| E 304 | E 3-07 DO YOU TROUBLESHOOT RELAYS. | 72 | 89 | 65 |
| E 305 | E 3-08 DO YOU STRAIGHTEN RELAY CONTACTS. | 93 | 51 | 40 |
| E 306 | E 3-09 DO YOU PERFORM ANY TASKS ON RELAY CONTACTS. | 43 | 49 | 40 |
| E 307 | E 3-10 DO YOU PERFORM ANY TASKS ON RELAY CORE. | 5 | 6 | 5 |
| E 308 | E 3-11 DO YOU PERFORM ANY TASKS ON RELAY COIL. | 8 | 14 | 5 |
| E 309 | E 3-12 DO YOU PERFORM ANY TASKS ON RELAY ARMATURE. | 10 | 11 | 7 |
| E 310 | E 3-13 DO YOU PERFORM ANY TASKS ON RELAY SPRINGS. | 17 | 17 | 16 |
| E 311 | E 3-14 DO YOU USE OR REFER TO THE SINGLE POLE, SINGLE THROW (SPST), NORMALLY OPEN (NO) SCHEMATIC SYMBOLS | 88 | 86 | 81 |

PCT: MARS ANSWERS YES FOR MAINTAINANCE GPS
 TASK GROUP SUMMARY
 PERCENT MEMBERS PERFORMING

GP SUMMARY PAGE A1

Maintenance
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| | GP | SPC | SPC |
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| | 0017 | 024 | 025 |
| E 312 E3-15 DO YOU USE OR REFER TO THE SINGLE POLE, SINGLE SYMBOLS THROU (SPOT), NORMALLY CLOSED (NC) SCHEMATIC SYMBOLS | 87 | 83 | 81 |
| E 313 E3-16 DO YOU USE OR REFER TO THE SINGLE POLE, DOUBLE THROU (SPOT) SCHEMATIC SYMBOLS FOR RELAYS? | 63 | 80 | 86 |
| E 314 E3-17 DO YOU USE OR REFER TO THE DOUBLE POLE, DOUBLE THROU (TOPOT) SCHEMATIC SYMBOLS FOR RELAYS? | 84 | 83 | 86 |
| E 315 E3-18 DO YOU USE OR REFER TO THE OTHER RELAY SYMBOLS SCHMATIC SYMBOLS FOR RELAY? | 60 | 64 | 63 |
| E 316 E3-19 DO YOU CHECK THE ELECTRICAL CONTINUITY OF COILS BY MEASURING RESISTANCE? | 64 | 60 | 67 |
| F 317 F1-01 DOES YOUR JOB INVOLVE ANY TASKS DEALING WITH MICROPHONES? | 33 | 31 | 37 |
| F 318 F1-02 DO YOU INSPECT MICROPHONES. | 16 | 11 | 19 |
| F 319 F1-03 DO YOU CLEAN MICROPHONES. | 11 | 6 | 16 |
| F 320 F1-04 DO YOU OPERATE (HAVE A JOB IN WHICH YOU USE MICROPHONES). | 23 | 23 | 26 |
| F 321 F1-05 DO YOU TROUBLESHOOT MICROPHONES AS FAR AS CHECKING WIRE CONNECTIONS BUT DO NOT TROUBLESHOOT DOWN TO MICROPHONES COMPONENTS. | 8 | 9 | 9 |
| F 322 F1-06 DO YOU TROUBLESHOOT DOWN TO MICROPHONES | 8 | 6 | 12 |
| F 323 F1-07 DO YOU REMOVE OR REPLACE THE COMPLETE MICROPHONE. | 13 | 11 | 16 |
| F 324 F1-08 DO YOU REMOVE OR REPLACE MICROPHONE PARTS. | 4 | 0 | 12 |
| F 325 F1-09 DO YOU PERFORM TASKS ON CARBON MICROPHONES. | 14 | 9 | 21 |
| F 326 F1-10 DO YOU PERFORM TASKS ON CAPACITOR MICROPHONES. | 4 | 3 | 0 |
| F 327 F1-11 DO YOU PERFORM TASKS ON CRYSTAL MICROPHONES. | 5 | 3 | 5 |
| F 328 F1-12 DO YOU PERFORM TASKS ON DYNAMIC MICROPHONES. | 5 | 3 | 7 |
| F 329 F1-13 DO YOU PERFORM TASKS ON VELOCITY MICROPHONES. | 0 | 0 | 0 |
| F 330 F2-01 DOES YOUR JOB INVOLVE ANY TASKS DEALING WITH SPEAKERS, SUCH AS LISTENING TO AUDIO OUTPUTS, ETC. | 78 | 37 | 60 |
| F 331 F2-02 DO YOU INSPECT SPEAKERS. | 19 | 9 | 26 |
| F 332 F2-03 DO YOU CLEAN SPEAKERS. | 12 | 9 | 16 |
| F 333 F2-04 DO YOU OPERATE (HAVE A JOB IN WHICH SPEAKERS ARE USED). | 28 | 20 | 35 |
| F 334 F2-05 DO YOU TROUBLESHOOT SPEAKERS AS FAR AS CHECKING WIRE CONNECTIONS BUT DO NOT TROUBLESHOOT DOWN TO SPEAKER COMPONENTS. | 20 | 11 | 28 |
| F 335 F2-06 DO YOU TROUBLESHOOT DOWN TO SPEAKER COMPONENTS. | 12 | 6 | 16 |
| F 336 F2-07 DO YOU REMOVE OR REPLACE THE COMPLETE SPEAKER. | 25 | 11 | 37 |
| F 337 F2-08 DO YOU REMOVE OR REPLACE SPEAKER PARTS. | 2 | 3 | 2 |
| F 338 F2-09 ARE YOU REQUIRED TO PERFORM ANY TASKS ON SPEAKER COILS. | 2 | 0 | 2 |
| F 339 F2-10 ARE YOU REQUIRED TO PERFORM ANY TASKS ON SPEAKER SPINDERS. | — | 0 | 0 |
| F 340 F2-11 ARE YOU REQUIRED TO PERFORM ANY TASKS ON SPEAKER FIELD COILS. | 1 | 0 | 0 |

MODULE 17 - MICROPHONE DO SPEAK

PCT MRS ANSWER YES FOR MAINT DAES C GPS
 TASK GROUP SUMMARY
 PERCENT MEMBERS PERFORMING

6PSUMZ PAGE 54

MAINTENANCE
 JC6AC 36530 (CONT)

BY-TSK

| | GP | SPC | SPC |
|--|------|-----|-----|
| BY-TSK | 0017 | 024 | 025 |
| F 341 F2-12 ARE YOU REQUIRED TO PERFORM ANY TASKS ON SPEAKER VOICE COILS. | 2 | 0 | 2 |
| F 342 F2-13 ARE YOU REQUIRED TO PERFORM ANY TASKS ON SPEAKER PERMANENT MAGNETS. | 2 | 0 | 2 |
| F 343 F2-14 ARE YOU REQUIRED TO PERFORM ANY TASKS ON SPEAKER ELECTROAGNETS. | 2 | 0 | 2 |
| F 344 F2-15 ARE YOU REQUIRED TO PERFORM ANY TASKS ON SPEAKER SOFT IRON CORES. | 1 | 0 | 2 |
| F 345 F3-01 DO YOU USE OSCILLOSCOPES ON YOUR PRESENT JOB. | 2 | 0 | 2 |
| F 346 F3-02 DO YOU USE AN OSCILLOSCOPE TO PERFORM OPERATIONAL CHECKS. | 2 | 0 | 2 |
| F 347 F3-03 DO YOU USE AN OSCILLOSCOPE TO PERFORM ALIGNMENT OR ADJUSTMENTS. | 2 | 0 | 2 |
| F 348 F3-04 DO YOU USE AN OSCILLOSCOPE TO PERFORM TROUBLESHOOT ELECTRONIC CIRCUITS. | 2 | 0 | 2 |
| F 349 F3-05 DO YOU USE AN OSCILLOSCOPE TO MEASURE FREQUENCY. | 2 | 0 | 2 |
| F 350 F3-06 DO YOU USE AN OSCILLOSCOPE TO MEASURE TIME. | 2 | 0 | 2 |
| F 351 F3-07 DO YOU USE AN OSCILLOSCOPE TO OBSERVE LISSAJOUS PATTERNS. | 2 | 0 | 2 |
| F 352 F3-08 DO YOU USE AN OSCILLOSCOPE TO OBSERVE SIGNALS WHILE UTILIZING ATTENUATOR PROBES. | 2 | 0 | 2 |
| F 353 F3-09 DO YOU USE AN OSCILLOSCOPE TO MAKE FREQUENCY OR TIME MEASUREMENTS USING THE DELAY TIME MULTIPLIER. | 2 | 0 | 2 |
| F 354 F3-10 DO YOU USE AN OSCILLOSCOPE TO MEASURE AC VOLTAGE. | 2 | 0 | 2 |
| F 355 F3-11 DO YOU USE AN OSCILLOSCOPE TO MEASURE OR OBSERVE SIGNALS AFTER FIRST ADJUSTING THE GAIN AND DC BAL | 2 | 0 | 2 |
| F 356 C1-01 DO YOU WORK WITH SEMICONDUCTOR DIODES ON YOUR PRESENT JOB. | 2 | 0 | 2 |
| G 357 G1-02 DO YOU INSPECT DIODES. | 2 | 0 | 2 |
| G 358 G1-03 DO YOU REMOVE OR REPLACE DIODES. | 2 | 0 | 2 |
| G 359 G1-04 DO YOU CHECK DIODES USING AN INSTRUMENT. | 2 | 0 | 2 |
| G 360 G1-05 DO YOU USE ENERGY LEVEL DIAGRAMS IN YOUR WORK WITH DIODES. | 2 | 0 | 2 |
| G 361 G1-06 DO YOU USE PN JUNCTION DIODE CHARACTERISTIC CURVES, TOGETHER WITH VALUES OF FORWARD AND REVERSE | 2 | 0 | 2 |
| G 362 G1-07 DO YOU COMPUTE FORWARD OR REVERSE BIAS RESISTANCE FOR DIODES. | 2 | 0 | 2 |
| G 363 G1-08 DO YOU USE OR REFER TO THE GENERAL RULE THAT TEMPERATURE CAN AFFECT THE OPERATION OF THE DIODE. | 2 | 0 | 2 |
| G 364 G1-09 DO YOU IDENTIFY SEMICONDUCTOR DIODES AS OPPOSED TO OTHER ELECTRONIC COMPONENTS, SUCH AS RESISTORS, | 2 | 0 | 2 |
| G 365 G1-10 DO YOU REFER TO OR DO YOU DETERMINE THE GENERAL EFFECTS OF DOPING ON CURRENT FLOW. | 2 | 0 | 2 |

NOTICE: 29 - 29 JUN 1972, PTC

PC1 MEMBERS ANSWER YES FOR MAINTAINANCE DATA SC. GPS

TASK GROUP SUMMARY
PERCENT MEMBERS PERFORMING

GPS UNIT PAGE 45

Maintenance
30840 30830 30870

| Ques-TASK | SPC | | |
|---|--------|-----|-----|
| | GP | SPC | SPC |
| | Obj. 7 | 024 | 025 |
| 6 366 61-11 DO YOU USE OR REFER TO A MEASUREMENT OF FORWARD BIAS RESISTANCE. | 99 | 49 | 72 |
| 6 367 61-12 DO YOU USE OR REFER TO DIODE COLOR CODING. | 51 | 31 | 65 |
| 6 368 61-13 DO YOU USE OR REFER TO CENTRIFUGAL FORCE OF AN ELECTRON IN ORBIT AROUND A NUCLEUS. | 0 | 0 | 0 |
| 6 369 61-14 DO YOU USE OR REFER TO CENTRIPITAL FORCE OF AN ELECTRON IN ORBIT AROUND A NUCLEUS. | 0 | 0 | 0 |
| 6 370 61-15 DO YOU USE OR REFER TO DIODE NUMBERING SYSTEM, SUCH AS IN S36. | 75 | 66 | 81 |
| 6 371 61-16 DO YOU USE OR REFER TO KINETIC ENERGY OF AN ELECTRON MOVING IN ORBIT. | 0 | 3 | 0 |
| 6 372 61-17 DO YOU USE OR REFER TO POTENTIAL ENERGY OF AN ELECTRON MOVING IN ORBIT. | 0 | 0 | 0 |
| 6 373 61-18 DO YOU USE OR REFER TO A MEASUREMENT OR REVERSE BIAS RESISTANCE. | 46 | 40 | 72 |
| 6 374 61-19 DO YOU USE OR REFER TO NUMBER OF ELECTRONS IN A PARTICULAR SHELL OR ORBIT. | 2 | 0 | 5 |
| 6 375 61-20 DO YOU USE OR REFER TO PERMISSIBLE ENERGY LEVELS OF AN ORBITING ELECTRON. | 0 | 0 | 0 |
| 6 376 61-21 DO YOU USE OR REFER TO FORBIDDEN ENERGY LEVELS OF AN ORBITING ELECTRON. | 0 | 0 | 0 |
| 6 377 61-22 DO YOU USE OR REFER TO VALENCE ELECTRONS (THOSE IN THE OUTERNOST SHELL). | 4 | 0 | 7 |
| 6 378 61-23 DO YOU USE OR REFER TO ATOMIC NUMBER (TOTAL NUMBER OF ELECTRONS IN ATOM). | 4 | 0 | 7 |
| 6 379 61-24 DO YOU USE OR REFER TO SYMBOLS ON THE DIODE WHICH INDICATE THE CATHODE END. | 71 | 60 | 77 |
| 6 380 61-25 DO YOU NEED TO KNOW WHICH MATERIALS ARE USED IN THE CONSTRUCTION OF DIODES, SUCH AS GERMANIUM OR | 34 | 26 | 42 |
| 6 381 61-26 IS IT IMPORTANT FOR YOU TO KNOW THAT SEMICONDUCTORS HAVE NEGATIVE TEMPERATURE COEFFICIENTS | 46 | 33 | 49 |
| 6 382 61-27 DO YOU USE OR REFER TO PN JUNCTION DIODE CHARACTERISTIC CURVES SUCH AS VOLTAGE - CURRENT | 20 | 4 | 33 |
| 6 383 61-28 DO YOU DETERMINE WHETHER A PN JUNCTION DIODE IS FORWARD BIASED OR REVERSE BIASED WHEN YOU READ OR | 78 | 77 | 84 |
| 6 384 61-29 DO YOU USE OR REFER TO VALENCE BAND IN SEMICONDUCTOR MATERIALS. | 2 | 0 | 3 |
| 6 385 61-30 DO YOU USE OR REFER TO FORBIDDEN BAND IN SEMICONDUCTOR MATERIALS. | 2 | 0 | 5 |
| 6 386 61-31 DO YOU USE OR REFER TO CONDUCTION BAND IN SEMICONDUCTOR MATERIALS. | 2 | 0 | 5 |

PCT MEMBERS ANSWERING YES FOR MAINT DAFSC LPS
 TASK GROUP SUMMARY
 PERCENT MEMBERS PERFORMING

SPRUMZ PAGE 64
 2001-1983C 2270
 0017 024 025

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| | 6P | SPC | SPC |
|--|----|-----|-----|
| 6 387 61-32 DO YOU USE OR REFER TO COVALENT BONDING IN SEMICONDUCTOR MATERIALS. | 1 | 0 | 2 |
| 6 388 61-33 DO YOU USE OR REFER TO ELECTRON - HOLE PAIR CREATED IN SEMICONDUCTORS. | 4 | 4 | 2 |
| 6 389 61-34 DO YOU USE OR REFER TO ELECTRON FLOW OR HOLE FLOW IN SEMICONDUCTORS. | 10 | 6 | 14 |
| 6 390 61-35 DO YOU USE OR REFER TO DONOR IMPURITY IN SEMICONDUCTORS. | 1 | 0 | 2 |
| 6 391 61-36 DO YOU USE OR REFER TO ACCEPTOR IMPURITY IN SEMICONDUCTORS. | 1 | 0 | 2 |
| 6 392 61-37 DO YOU USE OR REFER TO P-TYPE SEMICONDUCTOR MATERIAL. | 29 | 23 | 37 |
| 6 393 61-38 DO YOU USE OR REFER TO N-TYPE SEMICONDUCTOR MATERIAL. | 29 | 23 | 37 |
| 6 394 61-39 DO YOU USE OR REFER TO MAJORITY CARRIERS IN SEMICONDUCTORS. | 7 | 3 | 12 |
| 6 395 61-40 DO YOU USE OR REFER TO MINORITY CARRIERS IN SEMICONDUCTORS. | 7 | 3 | 12 |
| 6 396 61-41 DO YOU USE OR REFER TO JUNCTION RECOMBINATION IN SEMICONDUCTORS. | 2 | 3 | 2 |
| 6 397 61-42 DO YOU USE OR REFER TO DEPLETION REGION IN SEMICONDUCTORS. | 14 | 9 | 21 |
| 6 398 61-43 DO YOU USE OR REFER TO RELATIONSHIP BETWEEN BARRIER WIDTH AND DIFFERENCE OF POTENTIAL. | 11 | 6 | 14 |
| 6 399 61-44 DO YOU USE OR REFER TO THE 10 TO 1 BACK TO FRONT RESISTANCE RATIO FOR DIODES. | 72 | 69 | 74 |
| 6 400 61-45 DO YOU USE OR REFER TO BARRIER HEIGHT IN SEMICONDUCTORS. | 1 | 1 | 2 |
| 6 401 61-46 DO YOU USE OR REFER TO DIODE SUBSTITUTION INFORMATION. | - | 47 | 79 |
| 6 402 61-47 DO YOU USE OR REFER TO THE MAXIMUM AVERAGE FORWARD CURRENT DIODE RATING. | 39 | 23 | 49 |
| 6 403 61-48 DO YOU USE OR REFER TO THE PEAK RECURRENT FORWARD CURRENT DIODE RATING. | 31 | 20 | 37 |
| 6 404 61-49 DO YOU USE OR REFER TO THE MAXIMUM SURGE CURRENT DIODE RATING. | - | 35 | 14 |
| 6 405 61-50 DO YOU USE OR REFER TO THE PEAK REVERSE (INVERSE) VOLTAGE DIODE RATING. | 47 | 31 | 58 |
| 6 406 62-01 DO YOU WORK WITH TRANSISTORS ON YOUR PRESENT JOB. | 98 | 100 | 95 |
| 6 407 62-02 DO YOU INSPECT TRANSISTORS. | 91 | 89 | 79 |
| 6 408 62-03 DO YOU REMOVE OR REPLACE TRANSISTORS. | 64 | 91 | 79 |
| 6 409 62-04 DO YOU CHECK TRANSISTORS USING AN INSTRUMENT. | 64 | 89 | 81 |
| 6 410 62-05 DO YOU USE OR REFER TO Emitter - Base (EB) FORWARD AND REVERSE RESISTANCE MEASUREMENTS. | 67 | 91 | 84 |
| 6 411 62-06 DO YOU USE OR REFER TO COLLECTOR - BASE (CB) FORWARD AND REVERSE RESISTANCE MEASUREMENTS. | 67 | 91 | 84 |
| 6 412 62-07 DO YOU USE OR REFER TO Emitter - COLLECTOR (EC) FORWARD AND REVERSE RESISTANCE MEASUREMENTS. | 66 | 89 | 84 |

MODULE 30 - TRANSISTORS

PCT ANSWERS FOR MAINTENANCE TESTS
TASK GROUP SUMMARY
PERCENT MEMBERS PERFORMING

GPSUNZ PAGE 61

MAINTENANCE
3088X0 30883C 3087C

SP SPC SPC
0017 024 025

Q1-TSK

- 6 413 62-08 DO YOU USE OR REFER TO HOW BIASING AFFECTS THE PHYSICAL BARRIER WIDTH OF THE Emitter - Base JUNCTION.
 6 414 62-09 DO YOU USE OR REFER TO HOW BIASING AFFECTS THE PHYSICAL BARRIER WIDTH OF THE COLLECTOR - BASE JUNCTION.
 6 415 62-10 DO YOU USE OR REFER TO THE PHYSICAL SIZE OF THE TRANSISTOR STRUCTURE (COLLECTOR, BASE AND EMITTER).
 6 416 62-11 DO YOU USE OR REFER TO LEAKAGE CURRENT (ICBO) IN A TRANSISTOR.
 6 417 62-12 DO YOU USE OR REFER TO TRANSISTOR SCHEMATIC SYMBOLS.
 6 418 62-13 DO YOU USE OR REFER TO TRANSISTOR NOTATIONS, SUCH AS Q1, Q2, Q3, ETC.
 6 419 62-14 DO YOU USE OR REFER TO TRANSISTOR SUBSTITUTION INFORMATION.
 6 420 62-15 DO YOU USE OR REFER TO THE GENERAL RULE THAT THE TRANSISTOR BASE CURRENT IS NORMALLY SIGNIFICANTLY GREATER THAN THE Emitter BASE VOLTAGE ON BASE CURRENT IS THE INFORMATION.
 6 421 62-16 DO YOU USE THE INFORMATION THAT THE EFFECT OF Emitter BASE VOLTAGE ON BASE CURRENT IS THE INFORMATION.
 6 422 62-17 DO YOU USE THE GENERAL RULE THAT LEAKAGE CURRENT (ICBO) IN A TRANSISTOR INCREASES AS TEMPERATURE CURVES.
 6 423 62-18 DO YOU USE OR REFER TO TRANSISTOR CHARACTERISTIC CURVES.
 6 424 62-19 DO YOU USE OR REFER TO THE BETA TRANSISTOR GAINS.
 6 425 62-20 DO YOU USE OR REFER TO THE ALPHA TRANSISTOR GAINS.
 6 426 62-21 DO YOU USE OR REFER TO THE GAMMA TRANSISTOR GAINS.
 6 427 62-22 DO YOU CALCULATE THE BETA TRANSISTOR GAINS.
 6 428 62-23 DO YOU CALCULATE THE ALPHA TRANSISTOR GAINS.
 6 429 62-24 DO YOU CALCULATE THE GAMMA TRANSISTOR GAINS.
 6 430 63-01 DO YOU WORK WITH TRANSISTOR AMPLIFIERS IN YOUR PRESENT JOB.

6 431 63-02 DO YOU INSPECT TRANSISTER AMPLIFIERS.

- 6 432 63-03 DO YOU ALIGN OR ADJUST TRANSISTER AMPLIFIERS.
 6 433 63-04 DO YOU TROUBLESHOOT TO THE TRANSISTOR AMPLIFIER CIRCUIT LEVEL.
 6 434 63-05 DO YOU TROUBLESHOOT TO COMPONENT PARTS OF TRANSISTER AMPLIFIERS.

- 6 435 63-06 DO YOU REMOVE OR REPLACE THE COMPLETE TRANSISTOR AMPLIFIERS.
 6 436 63-07 DO YOU REMOVE OR REPLACE TRANSISTOR AMPLIFIER COMPONENT PARTS.

- 6 437 63-08 DO YOU USE OR REFER TO COMMON Emitter! THE CHANGE IN COLLECTOR CURRENT WHICH RESULTS FROM A CHANGE IN

MODULE 31 - AMPLIFIER PRINCIPLES
MODULE 39 - SOLID STATE WIDEBAND AMPLIFIERS

PCT MORS ANSWERS YES FOR MAINT DAFSC GPS

TASK GROUP SUMMARY
PERCENT MEMBERS PERFORMING

GPSUM7 PAGE - 43

MAINTENANCE
308X3 3083C 3083C

DY-TSK

| | 6P
0017 | SPC
U29 | SPC
025 |
|---|------------|------------|------------|
| 6 43-09 DO YOU USE OR REFER TO (COMMON Emitter) THE CALCULATIONS NECESSARY TO MEASURE THE SPECIFIC CHANGE IN COLLECTOR VOLTAGE WHICH RESULTS FROM A CHANGE IN | 11 | 11 | 9 |
| 6 43-10 DO YOU USE OR REFER TO (COMMON Emitter) THE CHANGE IN COLLECTOR VOLTAGE WHICH RESULTS FROM A CHANGE IN | 91 | 37 | 49 |
| 6 44-06 63-11 DO YOU USE OR REFER TO (COMMON Emitter) THE CALCULATIONS NECESSARY TO MEASURE THE SPECIFIC CHANGE | 9 | 9 | 7 |
| 6 44-1 63-12 DO YOU USE OR REFER TO (COMMON Emitter) THE CHANGE IN BASE CURRENT WHICH RESULTS FROM AN INPUT SIGNAL. | 37 | 31 | 92 |
| 6 44-2 63-13 DO YOU USE OR REFER TO (COMMON Emitter) THE CALCULATIONS NECESSARY TO MEASURE THE SPECIFIC CHANGE | 7 | 9 | 5 |
| 6 44-3 63-14 IN YOUR CIRCUIT ANALYSIS OF THE COMMON Emitter,
DO YOU USE THE LOAD-LINE METHOD OF ANALYSIS (THIS | 2 | 3 | 7 |
| 6 44-4 63-15 DO YOU USE OR REFER TO THE OPERATING POINT Q (QUIESCENT POINT) FOR A TRANSISTOR. | 19 | 14 | 23 |
| 6 44-5 63-16 DO YOU CALCULATE THE SPECIFIC QUILSENT POINT FOR A PARTICULAR TRANSISTOR. | 5 | 0 | 7 |
| 6 44-6 63-17 DO YOU MEASURE VOLTAGE GAIN (COMMON Emitter)? | 51 | 57 | 49 |
| 6 44-7 63-18 DO YOU MEASURE CURRENT GAIN (COMMON Emitter). | 24 | 26 | 26 |
| 6 44-8 63-19 DO YOU MEASURE POWER GAIN (COMMON Emitter). | 25 | 29 | 23 |
| 6 44-9 63-20 DO YOU CALCULATE THE VOLTAGE GAIN FOR A SPECIFIC TRANSISTOR USING A FORMULA. THAT IS, DO YOU MEASURE | 11 | 6 | 12 |
| 6 45-0 63-21 DO YOU CALCULATE THE CURRENT GAIN FOR A SPECIFIC TRANSISTOR USING A FORMULA. THAT IS, DO YOU MEASURE | 8 | 3 | 12 |
| 6 45-1 63-22 DO YOU CALCULATE THE POWER GAIN FOR A SPECIFIC TRANSISTOR USING A FORMULA. THAT IS, DO YOU MULTIPLY | 5 | 3 | 9 |
| 6 45-2 63-23 DO YOU NEED TO KNOW THAT MORE COLLECTOR CURRENT IS GENERATED WITH LESS COLLECTOR VOLTAGE AS | 14 | 3 | 26 |
| 6 45-3 63-24 DO YOU COMPUTE THE STATIC OPERATING POINT (V) OF A TRANSISTOR AT DIFFERENT TEMPERATURES. | 4 | 3 | 5 |

PCT WORK ANSWING YES FOR MAINTAIN PAGE 6P2
 TASK GROUP SUMMARY
 PERCENT MEMBERS PERFORMING

SP5UN7 PAGE 69

Maintenance
 308AC 3083C 3087G

| | DY-TSK | GP
0017 | SPC
024 | SPC
025 |
|--|--------|------------|------------|------------|
| 6 454 63-25 DO YOU IDENTIFY ON SCHEMATIC DIAGRAMS AND RELATE TO THE ACTUAL CIRCUITRY THE COMPONENTS ASSOCIATED | 52 | 49 | 54 | |
| 6 455 63-24 DO YOU IDENTIFY ON SCHEMATIC DIAGRAMS AND RELATE TO THE ACTUAL CIRCUITRY THE COMPONENTS ASSOCIATED | 46 | 37 | 51 | |
| 6 456 63-27 DO YOU IDENTIFY ON SCHEMATIC DIAGRAMS AND RELATE TO THE ACTUAL CIRCUITRY THE COMPONENTS ASSOCIATED | 47 | 31 | 53 | |
| 6 457 63-28 DO YOU IDENTIFY ON SCHEMATIC DIAGRAMS AND RELATE TO THE ACTUAL CIRCUITRY THE COMPONENTS ASSOCIATED | 46 | 37 | 63 | |
| 6 458 63-29 DO YOU IDENTIFY ON SCHEMATIC DIAGRAMS AND RELATE TO THE ACTUAL CIRCUITRY THE COMPONENTS ASSOCIATED | 45 | 34 | 53 | |
| 6 459 63-30 DO YOU IDENTIFY ON SCHEMATIC DIAGRAMS AND RELATE TO THE ACTUAL CIRCUITRY THE COMPONENTS ASSOCIATED | 39 | 31 | 44 | |
| 6 460 63-31 DO YOU TROUBLESHOOT CIRCUITS WHICH HAVE COMPONENTS WHICH PERFORM THE Emitter ISMING RESISTOR | 49 | 46 | 56 | |
| 6 461 63-32 DO YOU TROUBLESHOOT CIRCUITS WHICH HAVE COMPONENTS WHICH PERFORM THE SELF BIAS STABILIZATION FUNCTIONS, | 43 | 34 | 53 | |
| 6 462 63-33 DO YOU TROUBLESHOOT CIRCUITS WHICH HAVE COMPONENTS WHICH PERFORM THE HEMISTOR STABILIZATION FUNCTIONS | 40 | 29 | 51 | |
| 6 463 63-34 DO YOU TROUBLESHOOT CIRCUITS WHICH HAVE COMPONENTS WHICH PERFORM THE FORWARD BIAS DIODE STABILIZATION | 43 | 37 | 51 | |
| 6 464 63-35 DO YOU TROUBLESHOOT CIRCUITS WHICH HAVE COMPONENTS WHICH PERFORM THE REVERSE BIAS DIODE STABILIZATION | 44 | 40 | 53 | |
| 6 465 63-36 DO YOU TROUBLESHOOT CIRCUITS WHICH HAVE COMPONENTS WHICH PERFORM THE DOUBLE DIODE STABILIZATION FUNCTIONS? | 35 | 26 | 45 | |
| 6 466 63-37 DO YOU IDENTIFY AMPLITUDE DISTORTION FOR TRANSISTOR CIRCUITS. | 43 | 54 | 72 | |
| 6 467 63-38 DO YOU TROUBLESHOOT TRANSISTOR CIRCUITS TO FIND THE CAUSE OF AMPLITUDE DISTORTION. | 60 | 57 | 67 | |
| 6 468 63-39 DO YOU IDENTIFY FREQUENCY DISTORTION FOR TRANSISTOR CIRCUITS. | 53 | 49 | 58 | |
| 6 469 63-40 DO YOU TROUBLESHOOT TRANSISTOR CIRCUITS TO FIND THE CAUSE OF AMPLITUDE DISTORTION. | 55 | 54 | 60 | |
| 6 470 63-41 DO YOU IDENTIFY PHASE DISTORTION FOR TRANSISTOR CIRCUITS. | 37 | 26 | 51 | |
| 6 471 63-42 DO YOU TROUBLESHOOT TRANSISTOR CIRCUITS TO FIND THE CAUSES OF PHASE DISTORTION. | 36 | 26 | 49 | |
| 6 472 63-43 DO YOU IDENTIFY AMPLITUDE DISTORTION FOR TRANSISTOR CIRCUITS. | 40 | 51 | 70 | |

| | GP | SPC | SPC |
|--|----------------|-----|-----|
| | 0017 | 024 | 025 |
| G 473 G-44 DO YOU TROUBLESHOOT TRANSISTOR CIRCUITS TO FIND THE CAUSE OF AMPLITUDE DISTORTION. | S ₅ | 99 | 95 |
| G 474 G-45 DO YOU IDENTIFY FREQUENCY DISTORTION FOR TRANSISTOR CIRCUITS. | S ₆ | 39 | 56 |
| G 475 G-46 DO YOU TROUBLESHOOT TRANSISTOR CIRCUITS TO FIND THE CAUSE OF FREQUENCY DISTORTION FOR TRANSISTOR CIRCUITS. | S ₅ | 31 | 58 |
| G 476 G-47 DO YOU IDENTIFY PHASE DISTORTION FOR TRANSISTOR CIRCUITS. | S ₅ | 26 | 47 |
| G 477 G-48 DO YOU TROUBLESHOOT TRANSISTOR CIRCUITS TO FIND THE CAUSES OF PHASE DISTORTION. | S ₄ | 23 | 47 |
| G 478 G-49 THIS QUESTION REFERS TO A TRANSISTOR AMPLIFIER IN THE COMMON COLLECTOR CONFIGURATION. DO YOU NEED TO DETERMINE THE CLASS OF OPERATION FOR AMPLIFIERS IN ORDER TO TROUBLESHOOT AMPLIFIER CIRCUITS. | S ₂ | 11 | 26 |
| G 479 G-50 DO YOU DETERMINE THE CLASS OF OPERATION FOR AMPLIFIERS IN ORDER TO TROUBLESHOOT AMPLIFIER CIRCUITS. | S ₄ | 14 | 50 |
| G 480 G-51 DO YOU TROUBLESHOOT OR REPAIR PARAPHASE AMPLIFIERS CIRCUITS. | S ₄ | 26 | 44 |
| G 481 G-52 DO YOU TROUBLESHOOT OR REPAIR PUSH-PULL AMPLIFIERS CIRCUITS. | S ₉ | 60 | 43 |
| G 482 G-53 DO YOU TROUBLESHOOT OR REPAIR COMPLEMENTARY SPANNER CIRCUITS. | S ₃ | 37 | 51 |
| G 483 G-54 DO YOU TROUBLESHOOT OR REPAIR COMPOUND-CONNECTED AMPLIFIERS CIRCUITS. | S ₁ | 20 | 44 |
| G 484 G-55 DO YOU TROUBLESHOOT OR REPAIR CASCADE CONNECTED AMPLIFIERS CIRCUITS. | S ₈ | 54 | 65 |
| M 485 HI-01 DO YOU USE OR REFER TO VARACTORS. | S ₇ | 66 | 86 |
| M 486 HI-02 DO YOU USE OR REFER TO TUNNEL DIODES. | S ₅ | 54 | 77 |
| M 487 HI-03 DO YOU USE OR REFER TO FIELD EFFECT TRANSISTORS (FET). | S ₀ | 69 | 93 |
| M 488 HI-04 DO YOU USE OR REFER TO UNIJUNCTION TRANSISTORS. | S ₅ | 51 | 79 |
| M 489 HI-05 DO YOU USE OR REFER TO ZENER DIODES. | S ₀ | 94 | 100 |
| M 490 HI-06 DO YOU USE OR REFER TO INTEGRATED CIRCUITS. | S ₄ | 86 | 100 |
| M 491 HI-07 ON YOUR PRESENT JOB, DO YOU WORK WITH POWER SUPPLIES. | S ₉ | 94 | 93 |
| M 492 HI-02 DO YOU INSPECT POWER SUPPLIES. | S ₁ | 89 | 79 |
| M 493 HI-03 DO YOU CLEAN POWER SUPPLIES. | S ₅ | 89 | 70 |
| M 494 HI-04 DO YOU ALIGN OR ADJUST POWER SUPPLIES. | S ₀ | 89 | 77 |
| M 495 HI-05 DO YOU TROUBLESHOOT TO THE POWER SUPPLY CIRCUIT. | S ₅ | 80 | 70 |
| M 496 HI-06 DO YOU TROUBLESHOOT TO THE COMPONENT PARTS OF POWER SUPPLIES. | S ₈ | 80 | 79 |
| M 497 HI-07 DO YOU REMOVE OR REPLACE THE COMPLETE POWER SUPPLIES. | S ₉ | 80 | 43 |
| M 498 HI-08 DO YOU REMOVE OR REPLACE POWER SUPPLY PARTS. | S ₆ | 77 | 74 |
| M 499 HI-09 DO YOU WORK WITH HALF-WAVE RECTIFIERS. | S ₀ | 74 | 88 |
| M 500 HI-10 DO YOU WORK WITH FULL-WAVE RECTIFIERS OTHER THAN | S ₂ | 80 | 58 |

TASK GROUP SUMMARY
PERCENT MEMBERS PERFORMING

Maintainance
308X0 30830 30870

D.J.-TASK.

| | SP | SPC | SPC | SPC | SPC | SPC | SPC |
|--|-------|-----|-----|-----|-----|-----|-----|
| | 98.17 | 02% | 02% | 02% | 02% | 02% | 02% |
| H 501 H2-11 DO YOU WORK WITH BRIDGE RECTIFIERS. | 65 | 86 | 93 | | | | |
| H 502 H2-12 DO YOU WORK WITH THREE PHASE RECTIFIERS. | 93 | 37 | 51 | | | | |
| H 503 H2-13 DO YOU USE OR REFER TO INPUT VOLTAGE. | 79 | 91 | 95 | | | | |
| H 504 H2-14 DO YOU USE OR REFER TO INPUT FREQUENCY. | 73 | 69 | 84 | | | | |
| H 505 H2-15 DO YOU USE OR REFER TO PEAK OUTPUT VOLTAGE. | 83 | 83 | 84 | | | | |
| H 506 H2-16 DO YOU USE OR REFER TO AVERAGE OUTPUT VOLTAGE. | 77 | 67 | 81 | | | | |
| H 507 H2-17 DO YOU USE OR REFER TO RIPPLE AMPLITUDE. | 80 | 74 | 84 | | | | |
| H 508 H2-18 DO YOU USE OR REFER TO RIPPLE FREQUENCY. | 72 | 63 | 79 | | | | |
| H 509 H2-19 DO YOU USE OR REFER TO PEAK REVERSE (INVERSE) VOLTAGE. | 47 | 40 | 53 | | | | |
| H 510 H2-20 DO YOU USE OR REFER TO SHAPE OF THE OUTPUT WAVEFORM. | 75 | 69 | 79 | | | | |
| H 511 H2-21 DO YOU USE OR REFER TO EFFECTIVE OUTPUT VOLTAGE. | 73 | 63 | 64 | | | | |
| H 512 H2-22 DO YOU WORK WITH CIRCUITS WHICH EMPLOY CAPACITIVE FILTERS. | 72 | 63 | 81 | | | | |
| H 513 H2-23 DO YOU WORK WITH CIRCUITS WHICH EMPLOY INDUCTIVE FILTERS. | 60 | 46 | 72 | | | | |
| H 514 H2-24 DO YOU WORK WITH CIRCUITS WHICH EMPLOY CAPACITIVE INPUT L-TYPE FILTERS. | 49 | 37 | 60 | | | | |
| H 515 H2-25 DO YOU WORK WITH CIRCUITS WHICH EMPLOY INDUCTIVE INPUT L-TYPE FILTERS. | 49 | 37 | 60 | | | | |
| H 516 H2-26 DO YOU WORK WITH CIRCUITS WHICH EMPLOY LC PI-TYPE FILTERS. | 57 | 49 | 63 | | | | |
| H 517 H2-27 DO YOU WORK WITH CIRCUITS WHICH EMPLOY NC PI-TYPE FILTERS. | 58 | 46 | 67 | | | | |
| H 518 H2-28 DO YOU WORK WITH CIRCUITS WHICH EMPLOY DONUT FILTERS. REMEMBER WHICH TYPE OF FILTER. | 30 | 47 | 16 | | | | |
| H 519 H2-29 DO YOU HAVE THE OPTION OF REPLACING ONE TYPE OF FILTER WITH A DIFFERENT TYPE FILTER. | 10 | 3 | 16 | | | | |
| H 520 H3-01 DO YOU WORK WITH OSCILLATORS ON YOUR PRESENT JOB. | 87 | 86 | 88 | | | | |
| H 521 H3-02 DO YOU INSPECT OSCILLATORS. | 72 | 80 | 70 | | | | |
| H 522 H3-03 DO YOU ALIGN OR ADJUST OSCILLATORS. | 71 | 74 | 72 | | | | |
| H 523 H3-04 DO YOU REMOVE OR REPLACE THE COMPLETE OSCILLATORS CIRCUIT. | 63 | 74 | 58 | | | | |
| H 524 H3-05 DO YOU REMOVE OR REPLACE COMPONENT PARTS OF OSCILLATORS. | 66 | 64 | 67 | | | | |
| H 525 H3-06 DO YOU TROUBLESHOOT TO THE OSCILLATORS CIRCUIT LEVEL. | 67 | 77 | 65 | | | | |
| H 526 H3-07 DO YOU TROUBLESHOOT TO OSCILLATORS COMPONENTS. | 67 | 71 | 67 | | | | |
| H 527 H3-08 DO YOU USE OR REFER TO FEEDBACK. | 75 | 74 | 79 | | | | |
| H 528 H3-09 DO YOU USE OR REFER TO FREQUENCY DETERMINING DEVICES (FDD). | 64 | 63 | 67 | | | | |
| H 529 H3-10 DO YOU USE OR REFER TO AMPLITUDE STABILITY. | 55 | 40 | 67 | | | | |
| H 530 H3-11 DO YOU USE OR REFER TO FREQUENCY STABILITY. | 71 | 57 | 64 | | | | |
| H 531 H3-12 DO YOU USE OR REFER TO DAMPING. | 91 | 26 | 53 | | | | |
| H 532 H3-13 DO YOU USE OR REFER TO REGENERATIVE FEEDBACK. | 45 | 43 | 70 | | | | |

PCT MEMBERS ANSWER YES FOR MAINT DAFSC GPS
 TASK GROUP SUMMARY
 PERCENT MEMBERS PERFORMING

6P2UM7 PAGE 72

Maintainance
352A9 1382-30870

| | DY-TSK | GP | SPC | GP | SPC |
|---|--------|-----|-----|-----|-----|
| | 001 | 024 | 025 | 001 | 024 |
| H 533 H3-14 DO YOU USE OR REFER TO PIEZOELECTRIC EFFECT. | 23 | 26 | 21 | | |
| H 534 H3-15 DO YOU USE OR REFER TO CRITICAL DAMPING. | 20 | 14 | 26 | | |
| H 535 H3-16 DO YOU USE OR REFER TO UNDER DAMPING. | 19 | 11 | 26 | | |
| H 536 H3-17 DO YOU USE OR REFER TO OVER DAMPING. | 20 | 11 | 28 | | |
| H 537 H3-18 DO OSCILLATORS YOU WORK WITH USE LC TANK CIRCUITS AS FOO. | 59 | 51 | 67 | | |
| H 538 H3-19 DO OSCILLATORS YOU WORK WITH USE RC NETWORKS AS FOO. | 53 | 43 | 63 | | |
| H 539 H3-20 DO OSCILLATORS YOU WORK WITH USE CRYSTALS AS FOO. | 70 | 57 | 61 | | |
| H 540 H3-21 DO OSCILLATORS YOU WORK WITH USE DON'T REMEMBER WHICH TYPE AS FOO. | 16 | 29 | 5 | | |
| H 541 H3-22 DO YOU WORK WITH SERIES HARTLEY SINUSOIDAL OSCILLATORS. | — | 23 | 9 | 30 | |
| H 542 H3-23 DO YOU WORK WITH SHUNT HARTLEY SINUSOIDAL OSCILLATORS. | 22 | 11 | 26 | | |
| H 543 H3-24 DO YOU WORK WITH COLPITTS SINUSOIDAL OSCILLATORS. | 29 | 14 | 37 | | |
| H 544 H3-25 DO YOU WORK WITH CLAPP SINUSOIDAL OSCILLATORS. | 14 | 11 | 19 | | |
| H 545 H3-26 DO YOU WORK WITH BUTLER SINUSOIDAL OSCILLATORS. | 12 | 3 | 16 | | |
| H 546 H3-27 DO YOU WORK WITH DON'T REMEMBER WHICH TYPE OF SINUSOIDAL OSCILLATORS. | 55 | 66 | 59 | | |
| 547 T-01 DO YOU WORK WITH MULTIVIBRATORS ON YOUR PRESENT JOB. | 81 | 80 | 84 | | |
| I 548 II-02 DO YOU INSPECT WAVE SHAPING OR GENERATING CIRCUITS. | 61 | 60 | 67 | | |
| I 549 II-03 DO YOU ALIGN OR ADJUST WAVE SHAPING OR GENERATING CIRCUITS. | 54 | 51 | 60 | | |
| I 550 II-04 DO YOU CALIBRATE WAVE SHAPING OR GENERATING CIRCUITS. | 47 | 43 | 53 | | |
| I 551 II-05 DO YOU TROUBLESHOOT TO THE WAVE SHAPING OR GENERATING CIRCUITS. | 61 | 66 | 63 | | |
| I 552 II-06 DO YOU TROUBLESHOOT TO COMPONENTS WITHIN THE WAVE SHAPING OR GENERATING CIRCUITS. | — | 60 | 65 | | |
| I 553 II-07 DO YOU REMOVE OR REPLACE COMPLETE WAVE SHAPING OR GENERATING CIRCUITS. | 58 | 60 | 60 | | |
| I 554 II-08 DO YOU REMOVE OR REPLACE COMPONENTS OF WAVE SHAPING OR GENERATING CIRCUITS. | 61 | 60 | 67 | | |
| I 555 II-09 DO OSCILLATORS YOU WORK WITH USE LC TANK CIRCUITS AS FOO. | 43 | 34 | 51 | | |
| I 556 II-10 DO OSCILLATORS YOU WORK WITH USE RC NETWORKS AS FOO. | 48 | 34 | 60 | | |
| I 557 II-11 DO OSCILLATORS YOU WORK WITH USE CRYSTALS AS FOO. | 64 | 54 | 74 | | |
| I 558 II-12 DO OSCILLATORS YOU WORK WITH USE DON'T REMEMBER WHICH TYPE AS FOO. | 11 | 20 | 5 | | |
| I 559 II-13 DO YOU WORK WITH ASTABLE MULTIVIBRATORS. | 62 | 40 | 67 | | |
| I 560 II-14 DO YOU WORK WITH MONOSTABLE MULTIVIBRATORS. | 67 | 63 | 74 | | |
| I 561 II-15 DO YOU WORK WITH BIStABLE MULTIVIBRATORS. | 66 | 63 | 72 | | |
| I 562 II-16 DO YOU WORK WITH DON'T REMEMBER WHICH TYPE OF MULTIVIBRATORS. | 12 | 20 | 7 | | |

PCU MEMBERS ANSWERS YES FOR MAINTENANCE APES

TASK GROUP SUMMARY
PERCENT MEMBERS PERFORMING

SESSION 7 PAGE 22

MAINTENANCE
308X0 30830 30870

| | | DIY-TSK | 6TP | SPC | SPC |
|---|--|---------|------|-----|-----|
| | | | 0017 | 024 | 025 |
| 1 | 563 12-01 DO YOU WORK WITH LIMITERS OR CLAMPERS ON YOUR PRESENT JOB. | | 71 | 63 | 81 |
| 1 | 564 12-02 DO YOU WORK WITH SERIES DIODE LIMITERS. | | 47 | 31 | 63 |
| 1 | 565 12-03 DO YOU WORK WITH SHUNT DIODE LIMITERS. | | 44 | 31 | 67 |
| 1 | 566 12-04 DO YOU WORK WITH LIMITERS WITH BIAS. | | 37 | 26 | 97 |
| 1 | 567 12-05 DO YOU WORK WITH ZENER DIODE LIMITERS. | | 58 | 43 | 72 |
| 1 | 568 12-06 DO YOU WORK WITH TRANSISTOR LIMITERS. | | 54 | 34 | 72 |
| 1 | 569 12-07 DO YOU WORK WITH DON'T KNOW WHICH TYPE OF LIMITER. | | 12 | 20 | 7 |
| 1 | 570 12-08 DO YOU WORK WITH DIODE CLAMPERS. | | 51 | 34 | 67 |
| 1 | 571 12-09 DO YOU WORK WITH DIODE CLAMPERS WITH BIAS. | | 40 | 34 | 49 |
| 1 | 572 12-10 DO YOU WORK WITH DON'T KNOW WHICH TYPE OF CLAMPER. | | 18 | 29 | 12 |
| 1 | 573 13-01 FOR PURPOSES OF THIS QUESTION DO NOT CONSIDER HIGH FREQUENCY DEVICES, SUCH AS KLYSTRONS, TRAVELING WAVE 6000 OR NOT. | | 37 | 20 | 49 |
| 1 | 574 13-02 DO YOU CHECK ELECTRON TUBES TO SEE IF THEY ARE 6000 OR NOT. | | 29 | 17 | 33 |
| 1 | 575 13-03 DO YOU CHECK ELECTRON TUBES TO SEE IF THEY ARE 6000 OR NOT USING TUBE TESTERS. | | 23 | 11 | 26 |
| 1 | 576 13-04 DO YOU CHECK ELECTRON TUBES TO SEE IF THEY ARE 6000 OR NOT USING MULTIMETERS. | | 3 | 9 | 7 |
| 1 | 577 13-05 DO YOU CHECK ELECTRON TUBES TO SEE IF THEY ARE 6000 OR NOT USING SCOPES. | | 10 | 6 | 12 |
| 1 | 578 13-06 DO YOU CHECK ELECTRON TUBES TO SEE IF THEY ARE 6000 OR NOT USING SUBSTITUTIONS. | | 25 | 17 | 28 |
| 1 | 579 13-07 DO YOU USE ON REFER TO CUTOFF. | | 11 | 3 | 19 |
| 1 | 580 13-08 DO YOU USE ON REFER TO PEAK INVERSE VOLTAGE RATING. | | 4 | 3 | 5 |
| 1 | 581 13-09 DO YOU USE ON REFER TO PEAK CURRENT RATING. | | 4 | 3 | 5 |
| 1 | 582 13-10 DO YOU USE ON REFER TO TRANSIT TIME. | | 1 | 0 | 2 |
| 1 | 583 13-11 DO YOU USE ON REFER TO PLATE DISSIPATION RATING. | | 4 | 0 | 9 |
| 1 | 584 13-12 DO YOU USE ON REFER TO SATURATION. | | 10 | 3 | 14 |
| 1 | 585 13-13 DO YOU USE ON REFER TO DC PLATE RESISTANCE. | | 6 | 0 | 2 |
| 1 | 586 13-14 DO YOU COMPUTE THE ACTUAL VALUE OF THE DC PLATE RESISTANCE FOR ELECTRON TUBES. | | 1 | 0 | 0 |
| 1 | 587 13-15 DO YOU USE ON REFER TO GRID CURRENT. | | 28 | 11 | 37 |
| 1 | 588 13-16 DO YOU USE ON REFER TO PLATE CURRENT. | | 22 | 9 | 28 |
| 1 | 589 13-17 DO YOU USE ON REFER TO GRID VOLTAGE. | | 22 | 9 | 28 |
| 1 | 590 13-18 DO YOU USE ON REFER TO CATHODE VOLTAGE. | | 27 | 14 | 33 |
| 1 | 591 13-19 DO YOU USE ON REFER TO CATHODE CURRENT. | | 19 | 11 | 21 |
| 1 | 592 13-20 DO YOU USE ON REFER TO CATHODE CURRENT. | | 5 | 0 | 7 |
| 1 | 593 13-21 THE AMPLIFICATION FACTOR FOR TRIODES IS DEFINED AS THE RATIO OF CHANGE IN PLATE VOLTAGE TO A CHANGE IN AMPLIFICATION FACTOR. | | 1 | 3 | 0 |

PCT MARS ANSWERS FOR MAINT DAFSC LPS
 TASK GROUP SUMMARY
 PERCENT MEMBERS PERFORMING

GP SUMZ PAGE 74

Maintenance
 104XC 3083C 3085C

Maintenance

QY-TASK

GP SPC SPC

0017 029 025

- 1 595 13-23 DO YOU USE OR REFER TO MULTIGRID (TETRODE, PENTODE, ETC.) AMPLIFICATION FACTORS.
 1 596 13-24 DO YOU USE OR REFER TO ELECTRON TUBE TRANSCONDUCTANCE (G_T) WHICH IS MEASURED IN MHOS?
 1 597 13-25 DO YOU CALCULATE THE ACTUAL VALUE OF ELECTRON TUBE TRANSDUCTANCE.
 1 598 13-26 DO YOU USE OR REFER TO THE ELECTRON TUBE PARAMETER CALLED AC PLATE RESISTANCE.
 1 599 13-27 DO YOU CALCULATE THE ACTUAL VALUE OF AC PLATE RESISTANCE.
 1 600 13-28 DO YOU USE OR REFER TO ELECTRON TUBE INTERELECTRODE CAPACITANCE.
 1 601 13-29 IN YOUR WORK WITH ELECTRON TUBES, DO YOU USE OR REFER TO CHARACTERISTIC CURVES.
 1 602 13-30 DO YOU USE CHARACTERISTIC CURVES TO SELECT PLATE VOLTAGE FOR A SPECIFIED BIAS.
 1 603 13-31 DO YOU USE CHARACTERISTIC CURVES TO SELECT PLATE CURRENT FOR A SPECIFIED BIAS.
 1 604 13-32 DO YOU USE CHARACTERISTIC CURVES TO SELECT BIAS REQUIRED FOR CUTOFF.
 1 605 13-33 DO YOU USE CHARACTERISTIC CURVES TO SELECT BIAS REQUIRED FOR SATURATION.
 1 606 13-34 DO YOU USE OR REFER TO ELECTRON TUBE AMPLIFIER GAIN.
 1 607 13-35 DO YOU USE OR REFER TO ELECTRON TUBE AMPLIFIER EFFICIENCY.
 1 608 13-36 DO YOU USE TEST TUBE CHECKERS TO DETERMINE ELECTRON TUBE AMPLIFIER GAIN.
 1 609 13-37 DO YOU USE MULTIMETERS TO DETERMINE ELECTRON TUBE AMPLIFIER GAIN.
 1 610 13-38 DO YOU USE SCOPES TO DETERMINE ELECTRON TUBE AMPLIFIER GAIN.
 1 611 13-39 DO YOU USE CHARACTERISTIC CURVES TO DETERMINE ELECTRON TUBE AMPLIFIER GAIN.
 1 612 13-40 DO YOU CALCULATE ANY ELECTRON TUBE CAPACITANCES, SUCH AS INPUT CAPACITANCE, ETC.
 1 613 13-41 DO YOU USE OR REFER TO TUBE SOCKET NOTATION.
 1 614 13-42 DO YOU USE OR REFER TO PIN NUMBERING SYSTEMS.
 1 615 13-43 DO YOU USE OR REFER TO THE TYPE OF MATERIAL AND THE OPERATING TEMPERATURE OF THE EMITTING SURFACE IN
 1 616 13-44 DO YOU USE OR REFER TO TUBE SUBSTITUTION MATERIAL, SUCH AS MANUALS, ETC.

- J 617 JI-01 DO YOU WORK WITH ELECTRON TUBE AMPLIFIERS OR CIRCUITS ON YOUR PRESENT JOB.
 J 618 JI-02 DO YOU DETERMINE THE CLASS OF OPERATION FOR ELECTRON TUBE AMPLIFIERS IN ORDER TO TROUBLESHOOT

MODULE 60 - ELECTRON TUBE AMPLIFIERS,
 CATHODE FOLLOWERS, DC AMPLIFIERS AND TRIODE LIMITERS

MODULE 60 - ELECTRON TUBE AMPLIFIERS,
 CATHODE FOLLOWERS, DC AMPLIFIERS AND TRIODE LIMITERS

THESE ARE QUOTED FROM THE PAPERS OF THE
PRESIDENT OF THE UNITED STATES.

MAINTENANCE
308XC 39830 30870

| SPC | SPC | SPC | SPC | SPC | SPC | SPC | SPC | SPC | SPC |
|---|--|---|--|--|---|---|--|---|--|
| 0017 | 024 | 025 | 026 | 027 | 028 | 029 | 030 | 031 | 032 |
| J 619 J1-03 DO YOU TROUBLESHOOT OR REPAIR PARAPHASE
AMPLIFIERS. | J 620 J1-04 DO YOU TROUBLESHOOT OR REPAIR PUSH-PULL
AMPLIFIERS. | J 621 J1-05 DO YOU TROUBLESHOOT OR REPAIR COMPOUND-CONNECTED
AMPLIFIERS? | J 622 J1-06 DO YOU TROUBLESHOOT OR REPAIR CASCADE CONNECTED
AMPLIFIERS. | J 623 J1-07 DO YOU TROUBLESHOOT OR REPAIR DON'T KNOW WHICH
TYPE OF ELECTRON TUBE AMPLIFIER. | J 624 J2-01 DO YOU WORK WITH CRYSTAL TUBES THAT CATHODES ARE COOLED | J 625 J2-02 DO YOU WORK WITH CATHODE RAY TUBES. | J 626 J2-03 DO YOU USE OR REFER TO THE CHARACTERISTICS OF
BEAM POWER TUBES. | J 627 J2-04 DO YOU TROUBLESHOOT OR REPAIR CIRCUITS IN WHICH
BEAM POWER TUBES ARE USED? | J 628 J2-05 DO YOU USE OR REFER TO THE CHARACTERISTICS OF
THYRATRONS? |
| J 629 J2-06 DO YOU TROUBLESHOOT OR REPAIR CIRCUITS IN WHICH
THYRATRONS ARE USED. | J 630 J2-07 DO YOU USE OR REFER TO THE PRINCIPLES OF
OPERATION OF THE ELECTRON GUN OF THE CATHODE RAY TUBE. | J 631 J2-08 DO YOU USE OR REFER TO THE PRINCIPLES OF
OPERATION OF THE ELECTROMAGNETIC DEFLECTION SYSTEM OF
THE ELECTROSTATIC DEFLECTION SYSTEM OF THE | J 632 J2-09 DO YOU USE OR REFER TO ELECTRON OPTICS. | J 633 J2-10 DO YOU USE OR REFER TO PHOSPHOR SCREENS. | J 634 J2-11 DO YOU USE OR REFER TO ABRASIVE COATINGS. | J 635 J2-12 DO YOU USE OR REFER TO ELECTRONICS. | J 636 J2-13 DO YOU USE OR REFER TO PERSISTENCE. | J 637 J2-14 DO YOU USE OR REFER TO DECAY TIMES. | J 638 J2-15 DO YOU USE OR REFER TO FLUORESCENCES. |
| J 639 J2-16 DO YOU USE OR REFER TO PHOSPHOSCENES? | J 640 J3-01 DO YOU WORK ON TRANSITY OR RECEIVERS? | J 641 J3-02 DO YOU PERFORM ANY TASKS ON FREQUENCY CONVERTERS. | J 642 J3-03 DO YOU PERFORM ANY TASKS ON FREQUENCY MIXERS. | J 643 J3-04 DO YOU USE OR REFER TO THE HETERODYMING OF SIGNALS
IN YOUR WORK WITH TRANSMISSION OR RECEIVING SYSTEMS. | J 644 J3-05 DO YOU USE OR REFER TO ANTENNAS. | J 645 J3-06 DO YOU USE OR REFER TO OSCILLATORS. | J 646 J3-07 DO YOU USE OR REFER TO RECEIVING SYSTEMS. | J 647 J3-08 DO YOU USE OR REFER TO TRANSMITTERS. | J 648 J3-09 DO YOU USE OR REFER TO TRANSMISSION SYSTEMS. |

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PCT MORE ANSWERS FOR MAINT DAY2C GPS
 TASK GROUP SUMMARY
 PERCENT MEMBERS PERFORMING

SUMMARY PAGE 14

Maintainance

30670 30630

DT-TSK

| | | GP | SPC | SPC |
|--|--|------|-----|-----|
| | | 0017 | 024 | 025 |
| K 647 K1-02 DO YOU INSPECT AM SYSTEMS. | | 31 | 17 | 42 |
| K 648 K1-03 DO YOU CLEAN AM SYSTEMS. | | 29 | 17 | 37 |
| K 649 K1-04 DO YOU ALIGN OR ADJUST AM SYSTEMS. | | 33 | 20 | 42 |
| K 650 K1-05 DO YOU TROUBLESHOOT TO AM SYSTEMS. | | 31 | 20 | 42 |
| K 651 K1-06 DO YOU TROUBLESHOOT TO AM SYSTEMS. | | 29 | 20 | 37 |
| K 652 K1-07 DO YOU REMOVE OR REPLACE AM SYSTEMS. | | 29 | 20 | 37 |
| K 653 K1-08 DO YOU REMOVE OR REPLACE AM SYSTEMS. | | 24 | 17 | 30 |
| K 654 K1-09 DO YOU PERFORM ANY TASKS ON RF OSCILLATORS. | | 29 | 17 | 40 |
| K 655 K1-10 DO YOU PERFORM ANY TASKS ON RF AMPLIFIERS. | | 27 | 14 | 35 |
| K 656 K1-11 DO YOU PERFORM ANY TASKS ON AUDIO AMPLIFIERS. | | 31 | 17 | 40 |
| K 657 K1-12 DO YOU PERFORM ANY TASKS ON POWER AMPLIFIERS. | | 20 | 11 | 24 |
| K 658 K1-13 DO YOU PERFORM ANY TASKS ON LOCAL OSCILLATORS. | | 29 | 20 | 43 |
| K 659 K1-14 DO YOU PERFORM ANY TASKS ON IF AMPLIFIERS. | | 31 | 23 | 37 |
| K 660 K1-15 DO YOU PERFORM ANY TASKS ON DETECTORS. | | 20 | 10 | 37 |
| K 661 K1-16 DO YOU PERFORM ANY TASKS ON DONT' REMEMBER WHICH STAGE. | | 31 | 20 | 40 |
| K 662 K1-17 DO YOU USE OR REFER TO AMPLITUDE STABILIZATION IN TRANSMITTERS. | | 0 | 0 | 0 |
| K 663 K1-18 DO YOU USE OR REFER TO FREQUENCY STABILIZATION IN TRANSMITTERS. | | 10 | 11 | 16 |
| K 664 K1-19 DO YOU USE OR REFER TO IMAGE RATIOS OR TRANSMITTERS. | | 19 | 14 | 21 |
| K 665 K1-20 DO YOU USE OR REFER TO SENSITIVITY OF RECEIVERS. | | 29 | 20 | 35 |
| K 666 K1-21 DO YOU USE OR REFER TO SELECTIVITY OF RECEIVERS. | | 28 | 20 | 33 |
| K 667 K1-22 DO YOU USE OR REFER TO 2ND HARMONIC DISTORTION. | | 17 | 9 | 21 |
| K 668 K1-23 DO YOU USE OR REFER TO BANDPASS DISTORTION. | | 13 | 11 | 19 |
| K 669 K1-24 DO YOU USE OR REFER TO SQUARE LAW DISTORTION. | | 4 | 0 | 7 |
| X 670 K1-25 DO YOU USE OR REFER TO CO-CHANNEL INTERFERENCE RECEIVERS. | | 8 | 4 | 12 |
| K 671 K1-26 DO YOU USE OR REFER TO IMAGE FREQUENCIES IN IMAGE REJECTION RATIOS. | | 17 | 9 | 26 |
| K 672 K1-27 DO YOU TRACE SIGNALS OR CURRENT PATHS THROUGH AN TRANSMITTER SCHEMATIC DIAGRAMS. | | 10 | 9 | 9 |
| K 673 K1-28 DO YOU TRACE SIGNALS OF CURRENT PATHS THROUGH AN RECEIVER SCHEMATIC DIAGRAMS. | | 22 | 14 | 26 |
| K 674 K2-01 DO YOU WORK WITH FM TRANSMIT OR RECEIVE SYSTEMS ON YOUR PRESENT JOB. | | 67 | 54 | 77 |
| K 675 K2-02 DO YOU INSPECT FM SYSTEMS. | | 59 | 54 | 65 |
| K 676 K2-03 DO YOU CLEAN FM SYSTEMS. | | 53 | 51 | 66 |
| K 677 K2-04 DO YOU ALIGN FM SYSTEMS. | | 54 | 54 | 56 |
| K 678 K2-05 DO YOU TROUBLESHOOT TO FM SYSTEMS. | | 54 | 54 | 56 |
| K 679 K2-06 DO YOU TROUBLESHOOT TO FM COMPONENTS. | | 54 | 50 | 63 |
| K 680 K2-07 DO YOU REMOVE OR REPLACE FM SYSTEMS. | | 55 | 49 | 60 |
| K 681 K2-08 DO YOU REMOVE OR REPLACE FM COMPONENTS. | | 99 | 46 | 51 |
| K 682 K2-09 DO YOU PERFORM ANY TASKS ON AUDIO AMPLIFIERS. | | 57 | 51 | 60 |
| K 683 K2-10 DO YOU PERFORM ANY TASKS ON FREQUENCY MULTIPLIERS. | | 31 | 20 | 37 |
| K 684 K2-11 DO YOU PERFORM ANY TASKS ON DRIVERS (INTERMEDIATE AMPLIFIERS). | | 37 | 54 | 63 |
| | | 69 | 44 | 51 |

MODULE 68 - AI SYSTEMS

MODULE 69 - FM SYSTEMS

PCT MORS ANSWERS YES FOR MAINT DAFSC GPS

SPSUN1 PAGE 12

TASK GROUP SUMMARY
PERCENT MEMBERS PERFORMING

Maintainance
308AC 3083Q 3387C

DO-TSKS

GP SPC SPC
0017 024 025

K 485 K2-12 DO YOU PERFORM ANY TASKS ON POWER AMPLIFIERS.
K 486 K2-13 DO YOU PERFORM ANY TASKS ON RF AMPLIFIERS.
K 487 K2-14 DO YOU PERFORM ANY TASKS ON FREQUENCY CONVERTERS.
K 488 K2-15 DO YOU PERFORM ANY TASKS ON IF AMPLIFIERS.
K 489 K2-16 DO YOU PERFORM ANY TASKS ON LIMITERS.
K 490 K2-17 DO YOU PERFORM ANY TASKS ON FREQUENCY DISCRIMINATORS.

X 491 K2-18 DO YOU TRACE SIGNALS OR CURRENT PATHS THROUGH SCHEMATIC DIAGRAMS OF FM TRANSMITTERS.

X 492 K2-19 DO YOU TRACE SIGNALS OR CURRENT PATHS THROUGH SCHEMATIC DIAGRAMS OF FM RECEIVERS.

K 493 K3-01 DO YOU CONVERT DECIMAL (BASE 10) NUMBERS TO OCTAL (BASE 8) NUMBERS.

K 494 K3-02 DO YOU CONVERT DECIMAL NUMBERS TO BINARY (BASE 2) NUMBERS.

K 495 K3-03 DO YOU CONVERT OCTAL NUMBERS TO DECIMAL NUMBERS.

K 496 K3-04 DO YOU CONVERT OCTAL NUMBERS TO BINARY NUMBERS.

K 497 K3-05 DO YOU CONVERT BINARY NUMBERS TO DECIMAL NUMBERS.

K 498 K3-06 DO YOU CONVERT BINARY NUMBERS TO OCTAL NUMBERS.

K 499 K3-07 DO YOU ADD BINARY NUMBERS TO GET A SUM.

K 500 K3-08 DO YOU SUBTRACT BINARY NUMBERS USING THE END-AROUND-CARRY METHOD.

K 501 K3-09 DO YOU SUBTRACT BINARY NUMBERS USING THE DIRECT-SUBTRACTION METHOD.

K 502 K3-10 DO YOU ADD OCTAL NUMBERS TO GET A SUM.

K 503 LIST ON YOUR PRESENT JOB DO YOU PERFORM ANY TASKS RELATING TO LOGIC FUNCTIONS.

L 704 L1-02 DO YOU CONSTRUCT TRUTH TABLES FOR AND LOGIC SYMBOLS OR GATES.

L 705 L1-03 DO YOU CONSTRUCT TRUTH TABLES FOR OR LOGIC SYMBOLS OR GATES.

L 706 L1-04 DO YOU CONSTRUCT TRUTH TABLES FOR AND OR OR LOGIC SYMBOLS WITH STATE INDICATORS.

L 707 L1-05 DO YOU CONSTRUCT TRUTH TABLES FOR EXCLUSIVE OR LOGIC SYMBOLS OR GATES.

L 708 L1-06 DO YOU USE OR REFER TO TRUTH TABLES FOR AND LOGIC SYMBOLS OR GATES.

L 709 L1-07 DO YOU USE OR REFER TO TRUTH TABLES FOR OR LOGIC SYMBOLS OR GATES.

L 710 L1-08 DO YOU USE OR REFER TO TRUTH TABLES FOR AND OR LOGIC SYMBOLS WITH STATE INDICATORS.

L 711 L1-09 DO YOU USE OR REFER TO TRUTH TABLES FOR EXCLUSIVE OR LOGIC SYMBOLS.

L 712 L1-10 DO YOU USE OR REFER TO LOGIC SYMBOLS FOR AND GATES.

L 713 L1-11 DO YOU USE OR REFER TO LOGIC SYMBOLS FOR OR GATES.

L 714 L1-12 DO YOU USE OR REFER TO LOGIC SYMBOLS FOR NAND OR NOR GATES.

MODULE 51 - NUMBERING SYSTEM AND MATHEMATICAL CONCEPTS

MODULE 52 - LOGIC FUNCTIONS AND BOOLEAN EQUATIONS

PCT MEMBERS ANSWERS YES FOR MAINTAIN DATESC GPS
 TASK GROUP SUMMARY
 PERCENT MEMBERS PERFORMING

SPSUN7 PAGE 79
 MAINTENANCE
 308X0 30839 30872

| | GP | SPC | SPC |
|--|------|-----|-----|
| DY-TSK | 0012 | 024 | 025 |
| L 715 L-13 DO YOU USE OR REFER TO LOGIC SYMBOLS FOR EXCLUSIVE OR GATES. | 84 | 83 | 93 |
| L 716 L-201 DO YOU PRESENT JOB DO YOU PERFORM ANY TAKES RELATING TO BOOLEAN EQUATIONS, LOGIC DIAGRAMS OR LOGIC | 64 | 57 | 72 |
| L 717 L-202 DO YOU DRAW LOGIC SYMBOLS FOR DIRECT COUPLED TRANSISTOR LOGIC (DCTL) CIRCUITS. | 28 | 17 | 35 |
| L 718 L-203 DO YOU CONSTRUCT TRUTH TABLES FOR CURRENT MODE LOGIC (CML) CIRCUITS. | 11 | 5 | 16 |
| L 719 L-204 DO YOU DRAW LOGIC DIAGRAMS FROM GIVEN BOOLEAN EQUATIONS. | 31 | 17 | 44 |
| L 720 L-205 DO YOU MEASURE INPUTS OR OUTPUTS OF LOGIC GATES. | 54 | 46 | 66 |
| L 721 L-206 DO YOU DEVELOP OR ANALYZE BOOLEAN EQUATIONS IN THE PROCESS OF TROUBLESHOOTING DIGITAL CIRCUITS. | 29 | 11 | 44 |
| L 722 L-207 DO YOU ANALYZE LOGIC CIRCUITS BY USING BOOLEAN ALGEBRA. | 34 | 14 | 51 |
| L 723 L-208 DO YOU USE OR REFER TO LOGIC SYMBOLS FOR DIRECT COUPLED TRANSISTOR LOGIC (DCTL) CIRCUIT GATES. | 39 | 26 | 49 |
| L 724 L-209 DO YOU USE OR REFER TO TRUTH TABLES FOR CURRENT MODE LOGIC (CML) CIRCUITS. | 14 | 14 | 19 |
| L 725 L-210 DO YOU USE OR REFER TO LOGIC DIAGRAMS CONSISTING OF MORE THAN ONE GATE. | 55 | 43 | 67 |
| L 726 L-211 DO YOU COMPUTE SUM AND CARRY EXPRESSIONS FOR SERIAL HALF OR FULL ADDER LOGIC DIAGRAMS. | 40 | 31 | 49 |
| L 727 L-212 DO YOU TRACE DATA FLOW THROUGH PARALLEL FULL ADDER LOGIC DIAGRAMS. | 34 | 37 | 56 |
| L 728 L-213 DO YOU WORK WITH ASTABLE (FREE RUNNING) MULTIVIBRATORS. | 60 | 54 | 67 |
| L 729 L-214 DO YOU WORK WITH BISTABLE (FLIP-FLOP) MULTIVIBRATORS. | 65 | 63 | 67 |
| L 730 L-215 DO YOU WORK WITH MONOSTABLE (ONE-SHOT) MULTIVIBRATORS. | 63 | 57 | 67 |
| L 731 L-216 DO YOU USE OR REFER TO FLIP-FLOP MULTIVIBRATOR SYMBOLS. | 65 | 57 | 72 |
| L 732 L-217 DO YOU USE OR REFER TO SINGLE-SHO' MULTIVIBRATOR SYMBOLS. | 65 | 57 | 72 |
| L 733 L-218 DO YOU USE OR REFER TO FLIP-FLOP CIRCUIT DIAGRAMS. | 66 | 60 | 72 |
| L 734 L-219 DO YOU USE OR REFER TO FLIP-FLOP TRUTH TABLES. | 63 | 51 | 72 |
| L 735 L-220 DO YOU USE OR REFER TO COMPLEMENTED FLIP-FLOP SCHEMATIC DIAGRAMS. | 54 | 46 | 60 |
| L 736 L-221 DO YOU USE OR REFER TO COMPLEMENTING FLIP-FLOP LOGIC SYMBOLS. | 53 | 43 | 60 |
| L 737 L-222 DO YOU MEASURE OUTPUT WAVE SHAPES OF LOGIC CIRCUITS. | 57 | 54 | 60 |
| L 738 L-223 DO YOU TRACE DATA FLOW THROUGH COMPLEMENTED FLIP-FLOP SCHEMATIC DIAGRAMS. | 54 | 54 | 56 |
| L 739 L-224 DO YOU TRACE DATA FLOW THROUGH COMPLEMENTING FLIP-FLOP SCHEMATIC DIAGRAMS. | 51 | 46 | 54 |

PC1 MORE ANSWERS YES FOR MAINT DASC E&PS
 TASK GROUP SUMMARY
 PERCENT MEMBERS PERFORMING

GFSUM1 PAGE 22

Maintenance
 308X0 30830 30870

DY-TSK

L 740 L-2-25 Do you construct truth tables for J-K flip-flop

GP SPC SPC
 0.017 0.24 0.25

L 741 L-8-1 Do you work with digital counters in your present

job

- L 742 L-3-02 Do you use OR REFER TO THE TERM UP-COUNTER.
 L 743 L-3-03 Do you use OR REFER TO THE TERM DOWN-COUNTER.
 L 744 L-3-04 Do you use OR REFER TO THE TERM SERIAL COUNTER.
 L 745 L-3-05 Do you use OR REFER TO THE TERM PARALLEL COUNTER.
 L 746 L-3-06 Do you use OR REFER TO THE TERM RING COUNTER.
 L 747 L-3-07 Do you use OR REFER TO THE TERM DECADE COUNTER.
 L 748 L-3-08 Do you use OR REFER TO THE TERM COUNT DETECT CIRCUIT.
- L 749 L-3-09 Do you use OR REFER TO THE TERM DOWN CLOCK.
 L 750 L-3-10 Do you use OR REFER TO THE TERM UP CLOCK.
 L 751 L-3-11 Do you trace the data flow through logic diagrams OF UP-COUNTER HAVING COMPLEMENTED FLIP-FLOPS.
 L 752 L-3-12 Do you trace the data flow through logic diagrams OF SERIAL UP-OR DOWN-COUNTER HAVING COMPLEMENTING L 753 L-3-13 Do you trace the data flow through logic diagrams OF DECADE COUNTER.
 L 754 L-3-14 Do you trace the data flow through logic diagrams OF RING COUNTER.
 L 755 L-3-15 Do you trace the data flow through logic diagrams OF SERIAL UP-COUNTER FEEDING A PARALLEL STORAGE.
 L 756 L-3-16 Do you trace the data flow through logic diagrams OF SHIFT REGISTER.
 L 757 L-3-17 Do you trace the data flow through logic diagrams OF OTHER TYPE OF COUNTER.
 L 758 L-3-18 Do you compute the binary count after a specific INPUT PULSE FOR UP-COUNTER HAVING COMPLEMENTED FLIPS.
 L 759 L-3-19 Do you compute the binary count after a specific INPUT PULSE FOR SERIAL UP- OR DOWN-COUNTER HAVING INPUT PULSE FOR SERIAL UP-COUNTER FEEDING A PARALLEL
 L 760 L-3-20 Do you compute the binary count after a specific INPUT PULSE FOR OTHER TYPE OF COUNTER.
 L 761 L-3-21 Do you compute the binary count after a specific INPUT PULSE FOR OTHER TYPE OF COUNTER.
 L 762 L-3-22 Do you construct truth tables from logic diagrams OF DECADE COUNTERS.
 L 763 L-3-23 Do you determine the state of each flip-flop in a RING COUNTER FOR SPECIFIC INPUT PULSES.
 L 764 L-3-24 Do you determine the appropriate AND GATE NECESSARY IN A COUNT DETECT CIRCUIT TO INDICATE A

MODULE 54 - COUNTER, REGISTERS, AND STORAGE DEVICES

GP SPC SPC
 0.3 0.25

PCT HRS ANSWERS YES FOR MAINT DAFSC GPS
 TASK GROUP SUMMARY
 PERCENT MEMBERS PERFORMING

SPURRY PAGE 80
 MAINTENANCE
 3087C 3087C 22

QY-TSK

- N 765 M1-01 DO YOU WORK WITH SAWTOOTH WAVE GENERATORS.
 N 766 M1-02 DO YOU WORK WITH TRAPEZOIDAL WAVE GENERATORS.
 N 767 M1-03 DO YOU WORK WITH PULSED OSCILLATORS WITH REGENERATIVE FEEDBACK.
 N 768 M1-04 DO YOU WORK WITH PULSED OSCILLATORS WITHOUT REGENERATIVE FEEDBACK.
 N 769 M1-05 DO YOU WORK WITH BLOCKING OSCILLATORS.
 N 770 M1-06 DC YOU USE OR REFER TO RISE TIME.
 N 771 M1-07 DO YOU USE OR REFER TO FALL OR FLYBACK TIME.
 N 772 M1-08 DO YOU USE OR REFER TO SWEEP TIME.
 N 773 M1-09 DO YOU USE OR REFER TO ELECTRICAL LENGTH OF SAWTOOTH WAVEFORMS.
 N 774 M1-10 DO YOU USE OR REFER TO PHYSICAL LENGTH OF SAWTOOTH WAVEFORMS.
 N 775 M1-11 DO YOU USE OR REFER TO LINEAR SLOPE OF SAWTOOTH WAVEFORMS.
 N 776 M1-12 DO YOU USE OR REFER TO GATE LENGTH OF SAWTOOTH WAVEFORMS.
- N 777 M2-01 DO YOU USE SIGNAL GENERATORS ON YOUR PRESENT JOB.
 N 778 M2-02 DO YOU PERFORM OPERATIONAL OR PERFORMANCE CHECKS WHILE USING SIGNAL GENERATORS.
 N 779 M2-03 DO YOU PERFORM PERIODIC MAINTENANCE SUCH AS ADJUSTING, ALIGNING OR CALIBRATING WHILE USING SIGNAL GENERATORS.
- N 780 M2-04 DO YOU PERFORM TROUBLESHOOTING TO AN ASSEMBLY OR SUB-ASSEMBLY WHILE USING SIGNAL GENERATORS.
 N 781 M2-05 DO YOU PERFORM TROUBLESHOOTING TO THE SMALLEST REPLACEABLE COMPONENT WHILE USING SIGNAL GENERATORS.
 N 782 M2-06 DO YOU USE AUDIO SINE-WAVE GENERATORS.
 N 783 M2-07 DO YOU USE AUDIO NON-SINUSOIDAL WAVE GENERATORS SUCH AS SQUARE WAVE, TRIANGLE, PULSE OR SPIKE.
 N 784 M2-08 DO YOU USE RF GENERATORS LESS THAN 1,000 MHZ.
 N 785 M2-09 DO YOU USE RF GENERATORS GREATER THAN 1,000 MHZ.
 N 786 M2-10 DO YOU USE OTHER SPECIAL PURPOSE OR MULTI-FUNCTION GENERATORS.
- N 787 M3-01 DOES YOUR JOB INVOLVE ANY TASKS DEALING WITH ALTERNATING CURRENT OR DIRECT CURRENT MOTORS ON

MODULE 19 - MOTORS AND GENERATORS

- N 788 M3-02 DO YOU INSPECT MOTORS.
 N 789 M3-03 DO YOU CLEAN OR LUBRICATE MOTORS.
 N 790 M3-04 DO YOU OPERATE MOTORS.
 N 791 M3-05 DO YOU REMOVE OR REPLACE COMPLETE MOTORS.
 N 792 M3-06 DO YOU REMOVE OR REPLACE MOTOR PARTS.
 N 793 M3-07 DO YOU TROUBLESHOOT MOTORS AS FAR AS CHECKING WIRE CONNECTIONS BUT DO NOT TROUBLESHOOT DOWN TO COMPONENT PARTS.
 N 794 M3-08 DO YOU TROUBLESHOOT DOWN TO MOTOR COMPONENT PARTS.

SPURRY PAGE 80

GP SPC SPC

0017 024 Q25

SPURRY PAGE 80

PCU MEDIUM AMMETERS YES FOR MAINTENANCE DISC-6PS
TASK SUMMARY WORKERS PERFORMING

SPSUN7 PAGE 81
MAINTENANCE
308X0 30830 30870

| | Q1-7SK | GP | SPC | SPC | 0017 | 026 | 026 |
|--|--------|----|-----|-----|------|-----|-----|
| M 795 M-09 ARE YOU REQUIRED TO PERFORM ANY TASKS ON MOTOR FIELD COILS. | 16 | 14 | 16 | | | | |
| M 796 M-10 ARE YOU REQUIRED TO PERFORM ANY TASKS ON MOTOR ARMATURES. | 18 | 14 | 21 | | | | |
| M 797 M-11 ARE YOU REQUIRED TO PERFORM ANY TASKS ON MOTOR ROTORS. | 29 | 20 | 28 | | | | |
| M 798 M-12 ARE YOU REQUIRED TO PERFORM ANY TASKS ON MOTOR BRUSHES. | 47 | 51 | 47 | | | | |
| M 799 M-13 ARE YOU REQUIRED TO PERFORM ANY TASKS ON MOTOR SLIP RINGS. | 22 | 17 | 24 | | | | |
| M 800 M-14 ARE YOU REQUIRED TO PERFORM ANY TASKS ON MOTOR COMMUTATORS. | 22 | 23 | 21 | | | | |
| M 801 M-15 ARE YOU REQUIRED TO PERFORM ANY TASKS ON MOTOR POLE PIECES. | 14 | 14 | 14 | | | | |
| M 802 M-16 DO YOU DETERMINE OR MEASURE THE MAGNITUDE OF THE FORCE OR TORQUE CREATED BY A MOTOR. | 7 | 3 | 9 | | | | |
| M 803 M-17 DO YOU DETERMINE OR MEASURE THE DIRECTION OF THE MECHANICAL FORCE OR TORQUE CREATED BY A MOTOR. | 18 | 14 | 23 | | | | |
| M 804 M-18 DO YOU DETERMINE OR MEASURE THE MAGNITUDE OR DIRECTION OF THE INDUCED VOLTAGE IN A MOTOR. | 6 | 3 | 9 | | | | |
| M 805 M-19 DO YOU WORK WITH SYNCHRONOUS MOTORS. | 37 | 31 | 42 | | | | |
| M 806 M-20 DO YOU WORK WITH INDUCTION MOTORS. | 34 | 31 | 35 | | | | |
| M 807 M-21 DO YOU WORK WITH SPLIT-PHASE MOTORS. | 19 | 17 | 19 | | | | |
| M 808 M-22 DO YOU WORK WITH SOME COMBINATION OF THE ABOVE MOTORS. | 27 | 26 | 30 | | | | |
| M 809 M-23 DO YOU INSPECT GENERATORS. | 27 | 23 | 30 | | | | |
| M 810 M-24 DO YOU CLEAN OR LUBRICATE GENERATORS. | 20 | 20 | 23 | | | | |
| M 811 M-25 DO YOU OPERATE GENERATORS. | 19 | 17 | 23 | | | | |
| M 812 M-26 DO YOU REMOVE OR REPLACE COMPLETE GENERATORS. | 11 | 9 | 14 | | | | |
| M 813 M-27 DO YOU REMOVE OR REPLACE GENERATOR PARTS. | 8 | 5 | 12 | | | | |
| M 814 M-28 DO YOU TROUBLESHOOT GENERATORS AS FAR AS CHECKING WIRE CONNECTIONS BUT DO NOT TROUBLESHOOT DOWN TO METER COILS. | 5 | 5 | 2 | | | | |
| M 815 M-29 DO YOU TROUBLESHOOT DOWN TO GENERATOR COMPONENT PARTS. | 10 | 6 | 19 | | | | |
| M 816 M-30 DO YOU WORK WITH METERS ON YOUR PREVIOUS JOB. | 81 | 81 | 86 | | | | |
| M 817 M-02 DO YOU DESCRIBE THE FUNCTIONS OR USES OF METER PERMANENT MAGNETS. | 20 | 6 | 33 | | | | |
| M 818 M-03 DO YOU DESCRIBE THE FUNCTIONS OR USES OF METER MOVING COILS. | 19 | 4 | 30 | | | | |
| M 819 M-04 DO YOU DESCRIBE THE FUNCTIONS OR USES OF METER SIGNAL SPRINGS. | 76 | 60 | 79 | | | | |
| M 820 M-05 DO YOU READ METER SCALES. | 45 | 31 | 49 | | | | |
| M 821 M-06 DO YOU EXTEND THE RANGE OF AMMETERS. | 77 | 61 | 79 | | | | |
| M 822 M-07 DO YOU ZERO AMMETERS. | 51 | 51 | 53 | | | | |
| M 823 M-08 DO YOU ZERO AMMETERS. | 41 | 34 | 51 | | | | |
| M 824 M-09 DO YOU EXTEND THE RANGE OF VOLTMETERS. | | | | | | | |

MODULE 18 - METER MOVEMENTS AND CIRCUITS

PCT MURS ANSWERS YES FOR MAINT DAESCS LPS
 TASK GROUP SUMMARY
 PERCENT MEMBERS PERFORMING

HPSUM7 PAGE - 02

MAINTENANCE
 30630 30630 30870

| | DRY-TSK | SPC
0012 | SPC
029 | SPC
025 | |
|---|---------|-------------|------------|------------------------------------|--|
| N 426 N2-10 DO YOU USE OR REFER TO VOLTMETER SENSITIVITY (IT IS EXPRESSED IN UNITS OF OHMS PER VOLT). | 41 | 34 | 49 | | |
| N 426 N2-01 DO YOU WORK WITH SATURABLE REACTORS ON MAGNETIC AMPLIFIERS IN YOUR PRESENT JOB. | 11 | 16 | | | |
| N 427 N2-02 DO YOU INSPECT MAGNETIC AMPLIFIERS OR SATURABLE REACTORS. | 4 | 9 | 9 | | |
| N 428 N2-03 DO YOU CLEAN MAGNETIC AMPLIFIERS OR SATURABLE REACTORS. | 6 | 6 | 7 | | |
| N 429 N2-04 DO YOU ADJUST MAGNETIC AMPLIFIERS OR SATURABLE REACTORS. | 6 | 6 | 7 | | |
| N 430 N2-05 DO YOU TROUBLESHOOT MAGNETIC AMPLIFIERS OR SATURABLE REACTORS. | 6 | 6 | 12 | | |
| N 431 N2-06 DO YOU REMOVE OR REPLACE COMPLETE MAGNETIC AMPLIFIERS OR SATURABLE REACTORS. | 6 | 6 | 12 | | |
| N 432 N2-07 DO YOU REMOVE OR REPLACE MAGNETIC AMPLIFIERS OR SATURABLE REACTORS COMPONENTS. | 6 | 9 | 9 | | |
| N 433 N2-08 DO YOU USE OR REFER TO HYSERESIS CURVES OR LOOPS. | 6 | 6 | 7 | | |
| N 434 N2-09 DO YOU INTERPRET SCHEMATIC DRAWINGS TO DEVELOP OUTPUT WAVEFORMS ACROSS THE REACTOR WINDING OR LOAD. | 5 | 3 | 5 | | |
| N 435 N2-10 DO YOU MEASURE OUTPUT WAVEFORMS ACROSS THE REACTOR WINDING OR LOAD RESISTOR OF A SINGLE DINDING SATURABLE | 4 | 6 | 7 | | |
| N 436 N2-11 DO YOU INTERPRET SCHEMATIC DRAWINGS TO DEVELOP OUTPUT WAVEFORMS FOR MAGNETIC AMPLIFIERS. | 7 | 3 | 9 | | |
| N 437 N2-12 DO YOU USE OR REFER TO COERCIVE FORCE IN A SATURABLE REACTOR. | 1 | 0 | 0 | | |
| N 438 N2-13 DO YOU USE OR REFER TO RESIDUAL MAGNETISM IN A SATURABLE REACTOR. | 4 | 3 | 2 | | |
| N 439 N2-14 DO YOU USE OR REFER TO FLUX DENSITY IN A SATURABLE REACTOR. | 1 | 0 | 0 | | |
| N 440 N2-15 DO YOU USE OR REFER TO POINT OF SATURATION IN A SATURABLE REACTOR. | 5 | 0 | 7 | | |
| N 441 N2-16 DO YOU USE OR REFER TO SATURABLE REACTOR SCHEMATIC SYMBOLS. | 6 | 0 | 9 | | |
| N 442 N2-01 DO YOU WORK WITH WAVEHAPING CIRCUITS ON YOUR PRESENT JOB. | 65 | 69 | 70 | | |
| N 443 N2-02 DO YOU USE OR REFER TO TRANSIENT INTERVALS. | 33 | 26 | 40 | | |
| N 444 N2-03 DO YOU USE OR REFER TO PULSE WIDTH (PWN). | 56 | 57 | 63 | | |
| N 445 N2-04 DO YOU USE OR REFER TO PULSE RECURRENCE TIME (PRTI). | 47 | 51 | 47 | | |
| N 446 N2-05 DO YOU USE OR REFER TO PULSE RECURRENCE FREQUENCY (PRF). | 49 | 51 | 49 | | |
| N 447 N3-06 DO YOU USE OR REFER TO DIFFERENTIATION CIRCUITS. | 52 | 46 | 60 | | |
| N 448 N3-07 DO YOU USE OR REFER TO INTEGRATING CIRCUITS. | 57 | 51 | 65 | | |
| N 449 N3-08 DO YOU USE OR REFER TO THE CLASSIFICATION OF TIME CONSTANTS (TC) AS LONG, MEDIUM, OR SHORT. | 33 | 23 | 42 | | |
| | | | | MODULE 49 - SOLID STATE GENERATORS | |

**TASK GROUP SUMMARY
PERCENT MEMBERS PERFORMING**

 MAINTENANCE
308X0 30830 3087C

DY-TSK

| | GP | SPC | SPC | GP | SPC | SPC | GP | SPC | SPC |
|---|------|-----|-----|------|-----|-----|------|-----|-----|
| | 0017 | 029 | 025 | 0017 | 029 | 025 | 0017 | 029 | 025 |
| M 850 M2-09 DO YOU DETERMINE WHETHER AN LR OR RC CIRCUIT IS DIFFERENTIATING OR INTEGRATING BASED ON THE TIME | | | | | | | | | |
| M 851 M2-10 DO YOU WORK WITH SQUARE WAVE GENERATORS. | 25 | 14 | 35 | 59 | 51 | 70 | 39 | 29 | 49 |
| M 852 M2-11 DO YOU WORK WITH RECTANGULAR WAVE GENERATORS. | 2 | 3 | 2 | 3 | 0 | 0 | 2 | 0 | 0 |
| M 853 O1-01 DO YOU WORK ON SINGLE SIDEBAND SYSTEMS ON YOUR PRESENT JOB. | 2 | 3 | 2 | 3 | 0 | 0 | 2 | 0 | 0 |
| 0 854 O1-02 DO YOU INSPECT SSB SYSTEMS. | 1 | 3 | 0 | 1 | 3 | 0 | 1 | 3 | 0 |
| 0 855 O1-03 DO YOU CLEAN SSB SYSTEMS. | 1 | 3 | 0 | 1 | 3 | 0 | 1 | 3 | 0 |
| 0 856 O1-04 DO YOU ALIGN SSB SYSTEMS. | 1 | 3 | 0 | 1 | 3 | 0 | 1 | 3 | 0 |
| 0 857 O1-05 DO YOU TROUBLESHOOT TO SSB SYSTEMS. | 1 | 3 | 0 | 1 | 3 | 0 | 1 | 3 | 0 |
| 0 858 O1-06 DO YOU TROUBLESHOOT TO SSB COMPONENTS. | 1 | 3 | 0 | 1 | 3 | 0 | 1 | 3 | 0 |
| 0 859 O1-07 DO YOU REMOVE OR REPLACE SSB SYSTEMS. | 1 | 3 | 0 | 1 | 3 | 0 | 1 | 3 | 0 |
| 0 860 O1-08 DO YOU REMOVE OR REPLACE SSB COMPONENTS. | 1 | 3 | 0 | 1 | 3 | 0 | 1 | 3 | 0 |
| 0 861 O1-09 DO YOU PERFORM ANY TASKS ON SSB AUDIO AMPLIFIERS. | 1 | 3 | 0 | 1 | 3 | 0 | 1 | 3 | 0 |
| 0 862 O1-10 DO YOU PERFORM ANY TASKS ON SSB BALANCED MODULATORS. | 1 | 3 | 0 | 1 | 3 | 0 | 1 | 3 | 0 |
| 0 863 O1-11 DO YOU PERFORM ANY TASKS ON SSB CARRIER OSCILLATORS. | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 864 O1-12 DO YOU PERFORM ANY TASKS ON SSB LC FILTERS. | 1 | 3 | 0 | 1 | 3 | 0 | 1 | 3 | 0 |
| 0 865 O1-13 DO YOU PERFORM ANY TASKS ON SSB CRYSTAL FILTERS. | 1 | 3 | 0 | 1 | 3 | 0 | 1 | 3 | 0 |
| 0 866 O1-14 DO YOU PERFORM ANY TASKS ON SSB MECHANICAL FILTERS. | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 867 O1-15 DO YOU PERFORM ANY TASKS ON SSB OSCILLATORS. | 1 | 3 | 0 | 1 | 3 | 0 | 1 | 3 | 0 |
| 0 868 O1-16 DO YOU PERFORM ANY TASKS ON SSB FILTERS. | 1 | 3 | 0 | 1 | 3 | 0 | 1 | 3 | 0 |
| 0 869 O1-17 DO YOU PERFORM ANY TASKS ON SSB DRIVERS. | 1 | 3 | 0 | 1 | 3 | 0 | 1 | 3 | 0 |
| 0 870 O1-18 DO YOU PERFORM ANY TASKS ON SSB POWER AMPLIFIERS. | 1 | 3 | 0 | 1 | 3 | 0 | 1 | 3 | 0 |
| 0 871 O1-19 DO YOU PERFORM ANY TASKS ON SSB RF AMPLIFIERS. | 1 | 3 | 0 | 1 | 3 | 0 | 1 | 3 | 0 |
| 0 872 O1-20 DO YOU PERFORM ANY TASKS ON SSB FREQUENCY CONVERTERS. | 1 | 3 | 0 | 1 | 3 | 0 | 1 | 3 | 0 |
| 0 873 O1-21 DO YOU PERFORM ANY TASKS ON SSB IF AMPLIFIERS. | 1 | 3 | 0 | 1 | 3 | 0 | 1 | 3 | 0 |
| 0 874 O1-22 DO YOU USE OR REFER TO SELECTIVE PADING. | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 875 O1-23 DO YOU USE OR REFER TO PEAK POWER. | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 876 O1-24 DO YOU USE OR REFER TO FREQUENCY STABILITY. | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 877 O1-25 DO YOU USE OR REFER TO RESPONSE CURVES FOR BANDWIDTH FILTERS. | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 878 O1-26 DO YOU USE OR REFER TO FREQUENCY STABILITY. | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 879 O1-27 DO YOU USE OR REFER TO RESPONSE CURVES FOR RECEIVER SCHEMATIC DIAGRAMS. | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 880 O2-01 DO YOU WORK ON PULSE MODULATION SYSTEMS ON YOUR PRESENT JOB. | 70 | 22 | 56 | 70 | 22 | 56 | 70 | 22 | 56 |

PCT MEANS AND STANDARDS FOR VARIOUS OPERATING MODES
TASK GROUP SUMMARY
PERCENT MEANINGFUL PERFORMANCE

EXPOSURE PAGE 84
MANUFACTURE
30800 30830 30870

DY-TSK

GPC SPC SPC

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MODULE 71 - PULSES - WORKING WITH SYSTEMS

MODULE 71 - PULSES - WORKING WITH SYSTEMS

WORK WITHIN WHICH STAGE.

TASK GROUP SUMMARY
PERCENT MEMBERS PERFORMING

MAINTENANCE
308X0 30830 3C370

DP SPC APC
0017 026 025

DY-TSK

| | 0 911 02-29 DO YOU USE OR REFER TO PULSE RECURRENCE FREQUENCY (PRF). | 34 | 31 | 35 |
|--|--|----|----|----|
| 0 912 02-30 DO YOU USE OR REFER TO PULSE RECURRENCE TIME (PRTI). | | 34 | 29 | 37 |
| 0 913 02-31 DO YOU USE OR REFER TO PULSE WIDTH (PW). | | 42 | 40 | 41 |
| 0 914 02-32 DO YOU USE OR REFER TO PULSE SHAPE. | | 36 | 38 | 32 |
| 0 915 02-33 DO YOU USE OR REFER TO PEAK POWER. | | 18 | 20 | 16 |
| 0 916 02-34 DO YOU USE OR REFER TO AVERAGE POWER. | | 20 | 20 | 21 |
| 0 917 02-35 DO YOU CALCULATE PULSE RECURRENCE TIME (PRTI) OR PULSE RECURRENCE FREQUENCY (PRF). | | 14 | 9 | 16 |
| 0 918 02-36 DO YOU MEASURE PULSE RECURRENCE TIME (PRTI) OR PULSE RECURRENCE FREQUENCY (PRF). | | 26 | 23 | 28 |
| 0 919 02-37 DO YOU CALCULATE AVERAGE POWER OR PEAK POWER OF PULSE MODULATION TRANSMIT SYSTEM. | | 7 | 9 | 5 |
| 0 920 02-38 DO YOU USE FORMULAS TO CALCULATE AVERAGE POWER OR PEAK POWER OF PULSE MODULATION TRANSMIT SYSTEMS. | | 5 | 6 | 2 |
| 0 921 02-39 DO YOU TRACE SIGNALS OR CURRENT PATHS THROUGH PULSE MODULATION TRANSMITTER SCHEMATIC DIAGRAMS. | | 23 | 20 | 26 |
| 0 922 02-40 DO YOU TRACE SIGNALS OR CURRENT PATHS THROUGH PULSE MODULATION RECEIVER SCHEMATIC DIAGRAMS. | | 41 | 40 | 42 |
| 0 923 03-01 DO YOU WORK WITH ANTENNAS ON YOUR PRESENT JOB. | | 67 | 57 | 74 |
| C 924 03-02 DO YOU INSPECT ANTENNAS. | | 55 | 57 | 53 |
| 0 925 03-03 DO YOU CLEAN ANTENNAS. | | 49 | 54 | 47 |
| 0 926 03-04 DO YOU PHYSICALLY ALIGN ANTENNAS. | | 19 | 20 | 21 |
| 0 927 03-05 DO YOU ELECTRICALLY ALIGN ANTENNAS. | | 31 | 31 | 37 |
| 0 928 03-06 DO YOU TROUBLESHOOT TO ANTENNA. | | 36 | 34 | 40 |
| 0 929 03-07 DO YOU TROUBLESHOOT TO ANTENNA COMPONENTS. | | 46 | 40 | 56 |
| 0 930 03-08 DO YOU REMOVE OR INSTALL ANTENNAS. | | 14 | 3 | 24 |
| 0 931 03-09 DO YOU REMOVE OR REPLACE COMPONENTS OR ANTENNAS. | | 26 | 34 | 42 |
| 0 932 03-10 DO YOU USE OR REFER TO TECHNICAL DATA CONTAINING REPRESENTATIONS OF E (ELECTRIC FIELD) LINES. | | 11 | 6 | 14 |
| 0 933 03-11 DO YOU USE OR REFER TO THE GENERAL RULE THAT ANTENNAS WHICH ARE OF CORRECT LENGTH (HALF-WAVE) ACT AS REPRESENTATIONS OF H (MAGNETIC FIELD) LINES. | | 2 | 0 | 5 |
| 0 934 03-12 DO YOU DETERMINE THE DIRECTION OF THE MAGNETIC LINES IN RELATION TO THE ELECTRIC LINES OF FORCE FOR ANTENNAS WHICH ARE LONGER THAN A HALF-WAVE ACT AS REPRESENTATIONS OF H (MAGNETIC FIELD) LINES. | | 2 | 0 | 5 |
| 0 935 03-13 DO YOU USE OR REFER TO THE GENERAL RULE THAT ANTENNAS WHICH ARE SHORTER THAN A HALF-WAVE ACT AS ANTENNAS WHICH ARE SHORTER THAN A HALF-WAVE ACT AS | | 2 | 0 | 5 |
| 0 936 03-14 DO YOU WORK WITH HENRY ANTENNAS. | | 2 | 0 | 5 |
| 0 937 03-15 DO YOU WORK WITH MARCONI ANTENNAS. | | 2 | 0 | 5 |
| 0 938 03-16 DO YOU WORK WITH MARCONI ANTENNAS. | | 2 | 0 | 5 |
| 0 939 03-17 DO YOU WORK WITH MARCONI ANTENNAS. | | 6 | 0 | 12 |

PCSI MEMBERS ANSWERS YES FOR MAINTAIN DASFC GPS
 TASK GROUP SUMMARY
 PERCENT MEMBERS PERFORMING

SPANNING PAGE - 86
 MAINTENANCE
 30880 X 300 E 3572

| | DY-TSK | GP
0017 | SPC
024 | SPC
025 |
|---|--------|------------|------------|------------|
| 0 940 03-18 DO YOU WORK WITH BROADSIDE ARRAYS. | 1 | 0 | 2 | |
| 0 941 03-19 DO YOU WORK WITH CHOPPING ARRAYS. | 1 | 3 | 2 | |
| 0 942 03-20 DO YOU WORK WITH CARROUJU ARRAYS. | 0 | 0 | 0 | |
| 0 943 03-21 DO YOU WORK WITH COLLINEAR ARRAYS. | 0 | 0 | 0 | |
| 0 944 03-22 DO YOU USE OR REFER TO THE TERM ELECTROMAGNETIC INDUCTION FIELDS WHEN WORKING WITH ELECTROMAGNETIC INDUCTION FIELDS WHEN WORKING WITH ELECTROMAGNETIC INDUCTION FIELDS OF | 2 | 0 | 2 | |
| 0 945 03-23 DO YOU MEASURE ELECTROMAGNETIC INDUCTION FIELDS OF | 1 | 0 | 2 | |
| 0 946 03-24 DO YOU USE OR REFER TO THE TERM ELECTROMAGNETIC RADIATION FIELDS WHEN WORKING WITH ANTENNAS. | 4 | 4 | 5 | |
| 0 947 03-25 DO YOU MEASURE ELECTROMAGNETIC RADIATION FIELDS OF ANTENNAS. | 1 | 0 | 2 | |
| 0 948 03-26 DO YOU USE OR REFER TO THE TIME PHASE OF ELECTRIC (E) AND MAGNETIC (H) COMPONENTS IN THE ANTENNA | 2 | 3 | 0 | |
| 0 949 03-27 DO YOU USE OR REFER TO THE TIME PHASE OF ELECTRIC (E) AND MAGNETIC (H) COMPONENTS IN THE ANTENNA | 1 | 0 | 0 | |
| 0 950 03-28 ARE ANY OF THE ANTENNAS YOU WORK ON LINEARLY POLARIZED. | 0 | 0 | 7 | |
| 0 951 03-29 ARE ANY OF THE ANTENNAS YOU WORK ON CIRCULARLY POLARIZED. | 34 | 9 | 50 | |
| 0 952 03-30 DO YOU MEASURE OR DETERMINE THE POLARITY OF ANTENNAS YOU WORK ON. | 5 | 0 | 4 | |
| 0 953 03-31 DO YOU CONSTRUCT OR MAKE THE CALCULATIONS NECESSARY TO CONSTRUCT ANTENNAS OF CORRECT LENGTH FOR PARASITIC ELEMENTS. | 0 | 0 | 0 | |
| 0 954 03-32 DO YOU WORK WITH ANTENNA ARRAYS WHICH CONTAIN PARASITIC ELEMENTS. | 16 | 6 | 26 | |
| 0 955 03-33 DO YOU WORK WITH ANTENNA ARRAYS WHICH CONTAIN PARASITIC ELEMENTS SERVING AS DIRECTORS. | 6 | 6 | 12 | |
| 0 956 03-34 DO YOU WORK WITH ANTENNA ARRAYS WHICH CONTAIN PARASITIC ELEMENTS SERVING AS REFLECTORS. | 16 | 11 | 26 | |
| 0 957 03-35 DO YOU WORK WITH ANTENNA ARRAYS WHICH CONTAIN 20W+T REMEMBER. | 8 | 14 | 2 | |
| 0 958 03-36 DO YOU WORK ON UNIDIRECTIONAL ANTENNAS. | 34 | 31 | 42 | |
| 0 959 03-37 DO YOU WORK ON BI-DIRECTIONAL ANTENNAS. | 6 | 6 | 12 | |
| 0 960 03-38 DO YOU WORK ON DONT REMEMBER WHICH TYPE OF ANTENNAS. | 3 | 0 | 0 | |
| 0 961 03-39 DO YOU WORK WITH ROTAR ANTENNA ARRAYS. | 44 | 44 | 44 | |
| P-VX PT-DI TRANSMISSION LINES ARE DEFINED TO INCLUDE LEADS BETWEEN RECEIVERS AND ANTENNAS, TELEPHONE LEADS, AS MODULE 66 - TRANSMISSION LINES | 44 | 44 | 44 | |
| P 963 P-07 DO YOU REFER TO OR USE COPPER LOSS OR IR LOSS IN TRANSMISSION LINES. | 7 | 0 | 14 | |

PCI MORS ANSWERS YES FOR MAINT DASIC GPS
TASK GROUP SUMMARY
PERCENT MEMBERS PERFORMING

SPSUM7 PAGE 87

MAINTENANCE
 308XC 3083C 3087C

| 01-FAR | 0017 | 024 | 025 | SPC | SPC | SPC |
|--|------|-----|-----|-----|-----|-----|
| P 941 PI-91 DO YOU REFER TO OR USE SKIN EFFECTS OF HIGH FREQUENCY CURRENTS IN TRANSMISSION LINES. | 0 | 0 | 0 | 7 | | |
| P 945 PI-08 DO YOU AGREE TO OR USE RADIATION LOSS IN TRANSMISSION LINES. | 7 | 0 | 0 | 9 | | |
| P 946 PI-05 DO YOU REFER TO OR USE DIELECTRIC LOSS IN TRANSMISSION LINES. | 0 | 0 | 0 | 7 | | |
| P 947 PI-06 DO YOU REFER TO OR USE LEAKAGE LOSSES IN TRANSMISSION LINES. | 12 | 0 | 0 | 19 | | |
| P 948 PI-07 DO YOU WORK WITH TWISTED PAIR TRANSMISSION LINES. | 20 | 11 | 0 | 64 | | |
| P 949 PI-08 DO YOU WORK WITH TWIN LEAD TRANSMISSION LINES. | 17 | 11 | 0 | 23 | | |
| P 950 PI-09 DO YOU WORK WITH OPEN TWO-WIRE TRANSMISSION LINES. | 7 | 3 | 0 | 12 | | |
| P 951 PI-10 DO YOU WORK WITH FLEXIBLE COAXIAL CABLE. | 54 | 47 | 0 | 70 | | |
| P 952 PI-11 DO YOU WORK WITH RIGID COAXIAL CABLE. | 0 | 0 | 0 | 56 | | |
| P 953 PI-12 DO YOU TROUBLESHOOT TRANSMISSION LINES. | 0 | 0 | 0 | 49 | | |
| P 954 PI-13 DO YOU ANALYZE VOLTAGE OR CURRENT WAVEFORMS IN TRANSMISSION LINES TO DETERMINE THE TYPE OF TERMINATION | 2 | 0 | 0 | 5 | | |
| P 955 PI-14 DO YOU SELECT APPROPRIATE TRANSMISSION LINE TERMINATIONS TO ACHIEVE DESIRED WAVEFORMS. | 0 | 0 | 0 | 14 | | |
| P 956 PI-15 DO YOU USE OR REFER TO SCHEMATIC SYMBOLS FOR LINE TERMINATIONS IN TERMS OF CIRCUIT TERMINATIONS. | 33 | 26 | 0 | 40 | | |
| P 957 PI-16 DO YOU MEASURE STANDING WAVE RATIOS (SMR) OF TRANSMISSION LINES. | 25 | 29 | 0 | 23 | | |
| P 958 PI-17 DO YOU CALCULATE STANDING WAVE RATIOS (SMR) OF TRANSMISSION LINES. | 0 | 0 | 0 | 2 | | |
| P 959 PI-18 DO YOU PERFORM THE CALCULATIONS NECESSARY TO DETERMINE THE IMPEDANCE AND LENGTH OF QUARTER-WAVE MATCHED TO LOAD USING MATCHING TRANSFORMERS. | 0 | 0 | 0 | 0 | | |
| P 960 PI-19 DO YOU WORK WITH TRANSMISSION LINES WHICH ARE MATCHED TO LOAD USING HATCHING. | 19 | 14 | 0 | 26 | | |
| P 961 PI-20 DO YOU WORK WITH TRANSMISSION LINES WHICH ARE HATCHED TO A LOAD USING DELTA HATCHING. | 12 | 3 | 0 | 19 | | |
| P 962 PI-21 DO YOU SELECT THE TYPE OF TRANSMISSION LINE NEEDED FOR A PARTICULAR JOB WITHOUT REFERRING TO TECHNICAL | 0 | 0 | 0 | 7 | | |
| P 963 PI-22 DO YOU REFER TO OR USE THE TERM CHARACTERISTIC IMPEDANCE (Z0) OF TRANSMISSION LINES. | 0 | 0 | 0 | 0 | | |
| P 964 PI-23 DO YOU CALCULATE THE CHARACTERISTIC IMPEDANCE (Z0) OF TRANSMISSION LINES. | 1 | 0 | 0 | 2 | | |
| P 965 PI-24 DO YOU REFER TO OR USE THE TERM CUTOFF FREQUENCY FOR TRANSMISSION LINES. | 0 | 0 | 0 | 5 | | |
| P 966 PI-25 DO YOU REFER TO OR USE THE TERM VELOCITY FACTOR (k) OF TRANSMISSION LINES. | 0 | 0 | 0 | 0 | | |
| P 967 PI-26 DO YOU COMPUTE THE ELECTRICAL LENGTH OF TRANSMISSION LINES FOR PARTICULAR FREQUENCIES. | 0 | 0 | 0 | 5 | | |
| P 968 PI-27 DO YOU CONSTRUCT TRANSMISSION LINES OF A PARTICULAR ELECTRICAL LENGTH FOR GIVEN FREQUENCIES. | 0 | 0 | 0 | 5 | | |

PCT MEMBERS ANSWERS YES FOR MAINTAIN QAFSEC GPS
 TASK GROUP SUMMARY
 PERCENT MEMBERS PERFORMING

EPSUM7 PAGE 88

MAINTENANCE
 308X0 30830 30870

DP-TSK

- P 989 P1-26 DO YOU USE OR REFER TO THE GENERAL RULE THAT AS THE PHYSICAL LENGTH OF A TRANSMISSION LINE REMAINS THE SAME, YOU WORK WITH HARMONIC RESONANT (FLATT) TRANSMISSION LINES.
 P 990 P1-30 DO YOU WORK WITH RESONANT TRANSMISSION LINES?
 P 991 P1-31 DO YOU WORK WITH TRANSMISSION LINES WHICH ARE MATCHED TO A LOAD USING STUB MATCHING.
 P 992 P2-01 DO YOU WORK WITH WAVEGUIDES OR CAVITY RESONATORS ON YOUR PRESENT JOB.
- P 993 P2-02 DO YOU INSPECT WAVEGUIDES OR CAVITY RESONATORS.
 P 995 P2-03 DO YOU CLEAN WAVEGUIDES OR CAVITY RESONATORS.
 P 996 P2-04 DO YOU BEND WAVEGUIDES OR CAVITY RESONATORS.
 P 997 P2-05 DO YOU TWIST WAVEGUIDES OR CAVITY RESONATORS.
 P 998 P2-06 DO YOU PRESSURIZE WAVEGUIDES OR CAVITY RESONATORS.
 P 999 P2-07 DO YOU PURGE WAVEGUIDES OR CAVITY RESONATORS.
 P1000 P2-08 DO YOU TROUBLESHOOT WAVEGUIDES OR CAVITY RESONATORS.
 P1001 P2-09 DO YOU REMOVE OR INSTALL COMPLETE WAVEGUIDE.
 P1002 P2-10 DO YOU REMOVE OR INSTALL WAVEGUIDE SECTIONS.
 P1003 P2-11 DO YOU REMOVE OR INSTALL DUMMY LOADS.
 P1004 P2-12 DO YOU REMOVE OR INSTALL E BENDS.
 P1005 P2-13 DO YOU REMOVE OR INSTALL H BENDS.
 P1006 P2-14 DO YOU REMOVE OR INSTALL OTHER BENDS.
 P1007 P2-15 DO YOU REMOVE OR INSTALL CHOKES JOINTS.
 P1008 P2-16 DO YOU REMOVE OR INSTALL ROTATING JOINTS.
 P1009 P2-17 DO YOU REMOVE OR INSTALL DIRECTIONAL COUPLERS.
 P1010 P2-18 DO YOU REMOVE OR INSTALL BI-DIRECTIONAL COUPLERS.
 P1011 P2-19 DO YOU USE OR REFER TO "B" WALL OF WAVEGUIDES.
 P1012 P2-20 DO YOU USE OR REFER TO "B" WALL OF WAVEGUIDES.
 P1013 P2-21 DO YOU USE OR REFER TO CUTOFF FREQUENCY OF WAVEGUIDES.
 P1014 P2-22 DO YOU USE OR REFER TO FREQUENCY-DETERMINING WALL OF WAVEGUIDES.
 P1015 P2-23 DO YOU USE OR REFER TO DUPLEXEN FIELD BOUNDARY CONDITIONS.
- P1016 P2-24 DO YOU USE OR REFER TO ELECTRIC FIELD BOUNDARY CONDITIONS.
 P1017 P2-25 DO YOU USE OR REFER TO MAGNETIC FIELD BOUNDARY CONDITIONS.
 P1018 P2-26 DO YOU USE OR REFER TO CONDITIONS.
- P1019 P2-27 DO YOU USE OR REFER TO THE GENERAL RULE THAT MOST WAVEGUIDES ARE MADE WITH A "B" WALL SIZE OF .7 P1020 P2-28 DO YOU USE OR REFER TO THE GENERAL RULE THAT MOST "B" WALLS RANGE FROM .2 TO .5 WAVELENGTHS IN SIZE, WITH

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MODULE 74 - WAVEGUIDES / CAVITY RESONATORS

PCT ANSWERS FOR MAINT.DA55C LPS

TASK GROUP SUMMARY
PERCENT MEMBERS PERFORMING

EPSUM2 PAGE 80

MANTENANCE
308XC 3083C 30870

| | DY-TSK | SP | SPC | SPC |
|---|--------|----|-----|-----|
| P1021 P2-39 ARE YOU CONCERNED WITH THE MATERIAL (SUCH AS
GLASS) WHICH WAVEGUIDES ARE MADE OF. | 1 | 3 | 9 | |
| P1022 P2-40 DO YOU COMPUTE THE LENGTH OF A WAVEGUIDE FOR
SPECIFIC INSTALLATION. | 1 | 0 | 2 | |
| P1023 P2-31 DO YOU USE THE RIGHT HAND RULE TO DETERMINE THE
DIRECTION OF PROPAGATION, DIRECTION OF GEN FIELD, OR
AND PHASE IN WAVEGUIDES. | 1 | 0 | 2 | |
| P1025 P2-33 DO YOU MEASURE THE TIME PHASE OF E- AND H- LINES
IN WAVEGUIDES. | 1 | 0 | 2 | |
| P1026 P2-34 DO YOU USE OR REFER TO THE SPACE QUADRATURE OF E-
AND H- LINES IN WAVEGUIDES. | 0 | 0 | 0 | |
| P1027 P2-38 ARE HIGH POWER PROBES USED ON WAVEGUIDES OR CAVITY
RESONATORS YOU WORK WITH. | 12 | 17 | 9 | |
| P1028 P2-36 ARE LOW POWER PROBES USED ON WAVEGUIDES OR CAVITY
RESONATORS YOU WORK WITH. | 14 | 9 | 21 | |
| P1029 P2-37 ARE LOOPS USED ON WAVEGUIDES OR CAVITY RESONATORS
YOU WORK WITH. | 6 | 6 | 7 | |
| P1030 P2-38 ARE APERTURES (WINDOMS OR PINSESS) USED ON
WAVEGUIDES OR CAVITY RESONATORS YOU WORK WITH. | 20 | 17 | 26 | |
| P1031 P2-39 ARE DON'T REMEMBER WHICH ENERGY COUPLING DEVICE
USED ON WAVEGUIDES OR CAVITY RESONATORS YOU WORK WITH. | 8 | 17 | 2 | |
| P1032 P2-40 DO YOU DETERMINE WHERE PROBES SHOULD BE
MOUNTED IN WAVEGUIDES OR CAVITY RESONATORS WITHOUT
REFERRING TO. | 0 | 0 | 0 | |
| P1033 P2-41 DO YOU DETERMINE THE POSITIONING OF LOOPS IN
WAVEGUIDES OR CAVITY RESONATORS WITHOUT REFERRING TO. | 0 | 0 | 0 | |
| P1034 P2-42 DO YOU DETERMINE THE POSITIONING OR SIZE OF
APERTURES IN WAVEGUIDES OR CAVITY RESONATORS WITHOUT
REFERRING TO. | 1 | 0 | 2 | |
| P1035 P2-43 ARE CHOKES JOINTS USED ON WAVEGUIDES OR CAVITY
RESONATORS YOU WORK WITH. | 18 | 20 | 19 | |
| P1036 P2-44 ARE ROTATING JOINTS USED ON WAVEGUIDES OR CAVITY
RESONATORS YOU WORK WITH. | 10 | 29 | 12 | |
| P1037 P2-45 ARE DON'T REMEMBER WHICH KIND OF JOINT USED ON
WAVEGUIDES OR CAVITY RESONATORS YOU WORK WITH. | 5 | 6 | 5 | |
| P1038 P2-46 DO YOU TUNE CAVITY RESONATORS USING CAPACITIVE
TUNING. | 12 | 9 | 14 | |
| P1039 P2-47 DO YOU TUNE CAVITY RESONATORS USING INDUCTIVE
TUNING. | 5 | 3 | 7 | |
| P1040 P2-48 DO YOU TUNE CAVITY RESONATORS USING VOLUME TUNING. | 5 | 3 | 7 | |
| P1041 P2-49 DO YOU TUNE CAVITY RESONATORS USING DON'T REMEMBER
HOW. | 11 | 17 | 7 | |
| P1042 P2-50 DO YOU MEASURE THE FREQUENCY OF SIGNALS IN CAVITY
RESONATORS. | 20 | 20 | 23 | |

PCT-M005 ANSWERS YES FOR MAINT DAFSC UPS
 TASK GROUP SUMMARY
 PERCENT MEMBERS PERFORMING

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| | GP | SPC | SPC |
|---|------|-----|-----|
| | 0017 | 024 | 025 |
| P1041 P3-01 DO YOU WORK WITH KLYSTRONS, TRAVELING WAVE TUBES (TWT), PARAMETRIC AMPLIFIERS, OR | 54 | 51 | 56 |
| P1042 P3-02 DO YOU USE OR REFER TO INTERELECTRODE CAPACITANCE, OR | 7 | 4 | 7 |
| P1043 P3-03 DO YOU USE OR REFER TO ELECTRON TRANSIT TIME, | 2 | 3 | 2 |
| P1044 P3-04 DO YOU USE OR REFER TO LEAD INDUCTANCE, | 4 | 3 | 5 |
| P1047 P3-05 DO YOU USE OR REFER TO RF LOSSES IN EXTERNAL CIRCUITRY. | 10 | 10 | 10 |
| P1048 P3-06 DO YOU USE OR REFER TO PRINCIPLE OF ELECTRON VELOCITY MODULATION. | 11 | 0 | 21 |
| P1049 P3-07 DO YOU USE OR REFER TO ELECTRON BUNCHING. | 11 | 3 | 19 |
| P1050 P3-08 DO YOU WORK WITH TWO-CAVITY KLYSTRONS, | 4 | 3 | 5 |
| P1051 P3-09 DO YOU WORK WITH THREE-CAVITY KLYSTRONS, | 20 | 37 | 37 |
| P1052 P3-10 DO YOU WORK WITH REFLEX KLYSTRONS, | 19 | 11 | 24 |
| P1053 P3-11 DO YOU WORK WITH TRAVELING-WAVE TUBES (TWT)? | 25 | 93 | 14 |
| P1054 P3-12 DO YOU WORK WITH NONDEGENERATIVE PARAMETRIC AMPLIFIERS. | 30 | 23 | 37 |
| P1055 P3-13 DO YOU WORK WITH UP-CONVERTER PARAMETRIC AMPLIFIERS. | 16 | 19 | 14 |
| P1056 P3-14 DO YOU WORK WITH MAGNETRONS. | 6 | 7 | 5 |
| P1057 P3-15 DO YOU INSPECT TWT OR KLYSTRONS. | 34 | 93 | 30 |
| P1058 P3-16 DO YOU CLEAN TWT OR KLYSTRONS. | 26 | 34 | 26 |
| P1059 P3-17 DO YOU TUNE TWT OR KLYSTRONS ELECTRICALLY. | 27 | 31 | 26 |
| P1060 P3-18 DO YOU TUNE TWT OR KLYSTRONS MECHANICALLY. | 23 | 23 | 26 |
| P1061 P3-19 DO YOU PERFORM OPERATIONAL CHECKS OF TWT OR KLYSTRONS. | 33 | 43 | 26 |
| P1062 P3-20 DO YOU TROUBLESHOOT TWT OR KLYSTRONS. | 33 | 40 | 30 |
| P1063 P3-21 DO YOU REMOVE OR REPLACE COMPLETE TWT OR KLYSTRONS ASSEMBLY. | 31 | 37 | 30 |
| P1064 P3-22 DO YOU REMOVE OR REPLACE TWT OR KLYSTRONS COMPONENTS. | 25 | 34 | 21 |
| P1065 P3-23 DO YOU INSPECT PARAMETRIC AMPLIFIERS. | 92 | 99 | 47 |
| P1066 P3-24 DO YOU CLEAN PARAMETRIC AMPLIFIERS. | 90 | 93 | 42 |
| P1067 P3-25 DO YOU ADJUST PARAMETRIC AMPLIFIERS. | 93 | 96 | 47 |
| P1068 P3-26 DO YOU TUNE PARAMETRIC AMPLIFIERS. | 95 | 96 | 97 |
| P1069 P3-27 DO YOU PERFORM OPERATIONAL CHECKS OF PARAMETRIC AMPLIFIERS. | 96 | 96 | 49 |
| P1070 P3-28 DO YOU TROUBLESHOOT PARAMETRIC AMPLIFIERS. | 93 | 94 | 44 |
| P1071 P3-29 DO YOU REMOVE OR REPLACE COMPLETE PARAMETRIC AMPLIFIERS. | 42 | 44 | 42 |
| P1072 P3-30 DO YOU REMOVE OR REPLACE COMPONENTS OF PARAMETRIC AMPLIFIERS. | 41 | 40 | 44 |
| P1073 P3-31 DO YOU INSPECT MAGNETRONS. | 2 | 6 | 0 |
| P1074 P3-32 DO YOU CLEAN MAGNETRONS. | 2 | 4 | 0 |
| P1075 P3-33 DO YOU ADJUST MAGNETRONS. | 2 | 4 | 0 |
| P1076 P3-34 DO YOU TUNE MAGNETRONS. | 2 | 4 | 0 |
| P1077 P3-35 DO YOU PERFORM OPERATIONAL CHECKS OF MAGNETRONS. | 2 | 4 | 0 |

PCT MORE ANSWERS YES FOR MAINT DAPSC APS

TASK GROUP SUMMARY
PERCENT MEMBERS PERFORMING

EPSUM7 PAGE 91

MAINTENANCE
308XO 30830 3087C

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| | SP | SPC | SPC |
|---|------|-----|-----|
| | 0017 | 024 | 025 |
| P1078 P3-36 DO YOU TROUBLESHOOT MAGNETRONS? | 2 | 4 | 0 |
| P1079 P3-37 DO YOU REMOVE OR REPLACE COMPLETE MAGNETRON ASSEMBLY. | 2 | 4 | 0 |
| P1080 P3-38 DO YOU REMOVE OR REPLACE COMPONENTS OF MAGNETRONS? | 2 | 4 | 0 |
| P1081 P3-39 DO YOU USE OR REFER TO THE OPERATING PRINCIPLES OF TWO-CAVITY KLYSTRON COLLECTOR PLATES. | 2 | 3 | 2 |
| P1082 P3-40 DO YOU USE OR REFER TO THE OPERATING PRINCIPLES OF TWO-CAVITY KLYSTRON CATCHER CAVITIES. | 2 | 3 | 2 |
| P1083 P3-41 DO YOU USE OR REFER TO THE OPERATING PRINCIPLES OF TWO-CAVITY KLYSTRON CATCHER CAVITIES. | 2 | 3 | 2 |
| P1084 P3-42 DO YOU USE OR REFER TO THE OPERATING PRINCIPLES OF TWO-CAVITY KLYSTRON CATCHER GRIDS. | 2 | 3 | 2 |
| P1085 P3-43 DO YOU USE OR REFER TO THE OPERATING PRINCIPLES OF TWO-CAVITY KLYSTRON FEEDBACK LOOPS. | 2 | 3 | 2 |
| P1086 P3-44 DO YOU USE OR REFER TO THE OPERATING PRINCIPLES OF TWO-CAVITY KLYSTRON DRIFT SPACES. | 2 | 3 | 2 |
| P1087 P3-45 DO YOU USE OR REFER TO THE OPERATING PRINCIPLES OF TWO-CAVITY KLYSTRON BUNCHER GRIDS. | 2 | 3 | 2 |
| P1088 P3-46 DO YOU USE OR REFER TO THE OPERATING PRINCIPLES OF TWO-CAVITY KLYSTRON BUNCHER CAVITIES. | 2 | 3 | 2 |
| P1089 P3-47 DO YOU USE OR REFER TO THE OPERATING PRINCIPLES OF REFLEX KLYSTRON CONTROL GRIDS. | 2 | 3 | 2 |
| P1090 P3-48 DO YOU USE OR REFER TO THE OPERATING PRINCIPLES OF TWO-CAVITY KLYSTRON CATHODES. | 2 | 3 | 2 |
| P1091 P3-49 DO YOU USE OR REFER TO THE OPERATING PRINCIPLES OF REFLEX KLYSTRON REPELLER (REFLECTOR) PLATES. | 11 | 3 | 16 |
| P1092 P3-50 DO YOU USE OR REFER TO THE OPERATING PRINCIPLES OF REFLEX KLYSTRON GRIDS. | 10 | 3 | 14 |
| P1093 P3-51 DO YOU USE OR REFER TO THE OPERATING PRINCIPLES OF REFLEX KLYSTRON GRID CAVITY GAPS. | 9 | 3 | 7 |
| P1094 P3-52 DO YOU USE OR REFER TO THE OPERATING PRINCIPLES OF REFLEX KLYSTRON RESONANT CAVITIES. | 11 | 3 | 16 |
| P1095 P3-53 DO YOU USE OR REFER TO THE OPERATING PRINCIPLES OF REFLEX KLYSTRON MAGNETIC COUPLING LOOPS. | 4 | 3 | 7 |
| P1096 P3-54 DO YOU USE OR REFER TO THE OPERATING PRINCIPLES OF REFLEX KLYSTRON FILAMENTS. | 10 | 4 | 12 |
| P1097 P3-55 DO YOU USE OR REFER TO THE OPERATING PRINCIPLES OF REFLEX KLYSTRON CATHODES. | 10 | 6 | 12 |
| P1098 P3-56 DO YOU USE OR REFER TO THE OPERATING PRINCIPLES OF REFLEX KLYSTRON OUTPUT LEADS. | 12 | 9 | 14 |
| P1099 P3-57 DO YOU USE OR REFER TO THE OPERATING PRINCIPLES OF TWT CATHODES. | 14 | 20 | 12 |
| P1100 P3-58 DO YOU USE OR REFER TO THE OPERATING PRINCIPLES OF TWT MODULATION GRIDS. | 13 | 20 | 9 |
| P1101 P3-59 DO YOU USE OR REFER TO THE OPERATING PRINCIPLES OF TWT ANODES. | 11 | 14 | 9 |
| P1102 P3-60 DO YOU USE OR REFER TO THE OPERATING PRINCIPLES OF TWT WELLIES. | 13 | 20 | 9 |

PCY MORS ANSWERS YES FOR MAIN MEMORY SYSTEMS

TASK GROUP SUMMARY
PERCENT MEMBERS PERFORMING

SPS UNIT PAGE 92

MAINTENANCE
308X0 30830 30870

| | DATA | GP | SPC | SPC |
|--|------|------|-----|-----|
| | | 0017 | 024 | 025 |
| P1103 PA-61 DO YOU USE OR REFER TO THE OPERATING PRINCIPLES OF TWT COLLECTORS. | 13 | 20 | 9 | |
| P1104 PA-62 DO YOU USE OR REFER TO THE OPERATING PRINCIPLES OF TWT MAGNETS. | 6 | 11 | 2 | |
| P1105 PA-63 DO YOU USE OR REFER TO THE OPERATING PRINCIPLES OF TWT ATTENUATORS. | 24 | 17 | 30 | |
| P1106 PA-64 DO YOU PERFORM TASKS ON PARAMETRIC AMPLIFIER PERMIT CIRCUATORS. | 17 | 11 | 21 | |
| P1107 PA-65 DO YOU PERFORM TASKS ON PARAMETRIC AMPLIFIER SIGNAL CAVITIES. | 14 | 6 | 23 | |
| P1108 PA-66 DO YOU PERFORM TASKS ON PARAMETRIC AMPLIFIER TUDER CAVITIES. | 28 | 20 | 35 | |
| P1109 PA-67 DO YOU PERFORM TASKS ON PARAMETRIC AMPLIFIER VARACTOR DIODES. | 13 | 9 | 14 | |
| P1110 PA-68 DO YOU PERFORM TASKS ON PARAMETRIC AMPLIFIER FERRITE ISOLATORS. | 4 | 3 | 6 | |
| P1111 PA-69 DO YOU PERFORM TASKS ON PARAMETRIC AMPLIFIER REVERSE-BIAS BATTERIES. | 0 | 0 | 0 | |
| P1112 PA-70 DO YOU PERFORM TASKS ON MAGNETRON ANODE COOLING PINS. | 0 | 0 | 0 | |
| P1113 PA-71 DO YOU PERFORM TASKS ON MAGNETRON COUPLING LOOPS. | 0 | 0 | 0 | |
| P1114 PA-72 DO YOU PERFORM TASKS ON MAGNETRON HEATER LEADS. | 0 | 0 | 0 | |
| P1115 PA-73 DO YOU PERFORM TASKS ON MAGNETRON RESONANT CAVITIES. | 0 | 0 | 0 | |
| P1116 PA-74 DO YOU PERFORM TASKS ON MAGNETRON CATHODES. | 0 | 0 | 0 | |
| P1117 PA-75 DO YOU PERFORM TASKS ON MAGNETRON MAGNETS. | 0 | 0 | 0 | |
| Q1121 QI-01 DO YOU USE OR REFER TO SHIFT REGISTERS. | 63 | 80 | 86 | |
| Q1120 QI-02 DO YOU USE OR REFER TO SHIFT REGISTERS. | 66 | 83 | 91 | |
| Q1121 QI-03 DO YOU USE OR REFER TO LOGIC SYMBOL OF SHIFT REGISTERS. | 76 | 74 | 84 | |
| Q1122 QI-04 DO YOU USE OR REFER TO LOGIC SYMBOL OF STORAGE REGISTERS. | 76 | 74 | 84 | |
| Q1123 QI-05 DO YOU TRACE THE DATA FLOW THROUGH LOGIC DIAGRAMS OR SHIFT REGISTERS. | 63 | 70 | 75 | |
| Q1124 QI-06 DO YOU TRACE THE DATA FLOW THROUGH LOGIC DIAGRAMS OR OTHER TYPE REGISTERS. | 63 | 70 | 77 | |
| Q1125 QI-07 DO YOU DETERMINE THE STATE OF EACH FLIP-FLOP OF A SHIFT REGISTER AFTER A SPECIFIED NUMBER OF SHIFT PULSES. | 67 | 70 | 77 | |
| Q1126 QI-08 DO YOU WORK WITH DIGITAL COUNTERS, REGISTERS, CR STORAGE DEVICES IN YOUR PRESENT JOB. | 74 | 77 | 86 | |
| Q1127 QI-02 DO YOU USE OR REFER TO DELAY LINES. | 37 | 20 | 51 | |
| Q1128 QI-03 DO YOU USE OR REFER TO MAGNETIC CORES. | 45 | 21 | 50 | |
| Q1129 QI-04 DO YOU USE OR REFER TO MAGNETIC DRUMS. | 12 | 3 | 23 | |
| Q1130 QI-05 DO YOU USE OR REFER TO MAGNETIC TAPES. | 34 | 40 | 70 | |
| Q1131 QI-06 DO YOU USE OR REFER TO ACCESS TIMES OR SPEED OF MEMORY SYSTEMS. | 39 | 26 | 51 | |

PC1 - 9085 ANSWERS YES FOR MAINT. DATAFILE 625
 TASK GROUP SUMMARY
 PERCENT MEMBERS PERFORMING

MAINTENANCE
 308X0 30830 30270
 GEMINI PAGE 92

| | Q1-15K | 6P | SPC | SPC |
|--|----------|-----|----------|-----|
| | 0017 024 | 025 | 0017 024 | 025 |
| Q1132 Q2-07 DO YOU USE OR REFER TO WORD CAPACITY OF MEMORY SYSTEMS. | 43 | 90 | 64 | |
| Q1133 Q2-08 DO YOU USE OR REFER TO VOLATILITY OF MEMORY SYSTEMS. | 25 | 17 | 33 | |
| Q1134 Q2-09 DO YOU USE OR REFER TO LOGIC SYMBOL OF DELAY LINES. | 33 | 26 | 42 | |
| Q1135 Q3-01 ON YOUR PRESENT JOB DO YOU WORK WITH DIGITAL-TO-DIGITAL ANALOG (D/A) CONVERTERS, ANALOG-TO-DIGITAL (A/D) CONVERTERS, OR COMPUTE THE OUTPUT VOLTAGE OR AN ELECTRO MECHANICAL DIGITAL-TO-ANALOG (D/A) CONVERTER FOR A CIRCUIT IN A ELECTROMECHANICAL DIGITAL-TO-ANALOG (D/A) | 75 | 65 | 80 | |
| Q1136 Q3-02 DO YOU COMPUTE THE ANALOG VOLTAGE FOR A GIVEN DIGITAL COUNT IN ELECTRONIC DIGITAL-TO-ANALOG (D/A) | 14 | 17 | 14 | |
| Q1137 Q3-03 DO YOU USE OR REFER TO THE GENERAL RULE THAT THE VARIABLE TIME ANALOG-TO-DIGITAL (A/D) CONVERTER COUNTS ON THE HOLD FUNCTION OF | 7 | 0 | 16 | |
| Q1138 Q3-04 DO YOU COMPUTE THE ANALOG VOLTAGE FOR A GIVEN DIGITAL COUNT ON THE SAMPLE FUNCTION OF | 19 | 11 | 26 | |
| Q1139 Q3-05 DO YOU PERFORM ANY TASKS ON THE SAMPLE FUNCTION OF VARIABLE TIME ANALOG-TO-DIGITAL (A/D) CONVERTER | 18 | 14 | 21 | |
| Q1140 Q3-06 DO YOU PERFORM ANY TASKS ON THE HOLD FUNCTION OF VARIABLE TIME ANALOG-TO-DIGITAL (A/D) CONVERTER | 18 | 14 | 21 | |
| Q1141 Q3-07 DO YOU PERFORM ANY TASKS ON THE COMPARE FUNCTION OF VARIABLE TIME ANALOG-TO-DIGITAL (A/D) CONVERTER | 20 | 14 | 26 | |
| Q1142 Q3-08 DO YOU PERFORM ANY TASKS ON THE DIGITIZE FUNCTION OF VARIABLE TIME ANALOG-TO-DIGITAL (A/D) CONVERTER | 20 | 14 | 26 | |
| Q1143 Q3-09 DO YOU PERFORM ANY TASKS ON THE DON'T REMEMBER FUNCTION OF VARIABLE TIME ANALOG-TO-DIGITAL (A/D) | 14 | 12 | 16 | |
| Q1144 Q3-10 DO YOU USE OR REFER TO SAMPLE FUNCTION OF A/D CONVERTERS. | 22 | 14 | 20 | |
| Q1145 Q3-11 DO YOU USE OR REFER TO HOLD FUNCTION OF A/D CONVERTERS. | 20 | 14 | 26 | |
| Q1146 Q3-12 DO YOU USE OR REFER TO COMPARE FUNCTION OF A/D CONVERTERS. | 23 | 17 | 30 | |
| Q1147 Q3-13 DO YOU USE OR REFER TO DIGITAL FUNCTION OF A/D CONVERTERS. | 29 | 23 | 35 | |
| Q1148 Q3-14 DO YOU PERFORM ANY TASKS ON MECHANICAL ANALOG-TO-DIGITAL (A/D) CONVERTERS. | 11 | 6 | 14 | |
| Q1149 Q3-15 DO YOU WORK WITH PHANTASTRON CIRCUITS OR YOUR PRESENT JOB. | 2 | 0 | 5 | |
| Q1150 Q3-16 ON YOUR PRESENT JOB DO YOU WORK WITH SEMICONDUCTOR CIRCUITS. | 28 | 19 | 36 | |

PCT MEMS ANSWERS YES FOR MAINT_DAFSC_SPS

TASK GROUP SUMMARY
PERCENT MEMBERS PERFORMING

4P3047 PAGE 95

MAINTENANCE

308X0 30830 30870

| | 9Y-TSK | GP | SPC | SPC | GP | SPC | SPC |
|--|--------|------|-----|-----|------|-----|-----|
| | | 0017 | 024 | 025 | 0017 | 024 | 025 |
| T1175 T1-11 DO YOU USE OR REFER TO FAR REGION,
T1176 T1-12 DO YOU USE OR REFER TO INTERMEDIATE REGION.
T1177 T1-13 DO YOU USE OR REFER TO NEAR REGION.
T1178 T1-14 DO YOU USE OR REFER TO MICROWAVE.
T1179 T1-15 DO YOU USE OR REFER TO GRAY REGIONS. | | 0 | 0 | 0 | 0 | 0 | 0 |
| T1180 T1-16 DO YOU USE OR REFER TO BLACK BODIES.
T1181 T1-17 DO YOU USE OR REFER TO ABSORPTION.
T1182 T1-18 DO YOU USE OR REFER TO SCATTERING.
T1183 T1-19 DO YOU USE OR REFER TO ABSOLUTE ZERO.
T1184 T1-20 DO YOU PERFORM TASKS ON BLITZ. | | 0 | 0 | 0 | 0 | 0 | 0 |
| T1185 T1-21 DO YOU PERFORM TASKS ON TARGET BUTTONS.
T1186 T1-22 DO YOU PERFORM TASKS ON EJECTOR LENSES.
T1187 T1-23 DO YOU PERFORM TASKS ON OCULAR LENSES.
T1188 T1-24 DO YOU PERFORM TASKS ON CORRECTION LENSES.
T1189 T1-25 DO YOU PERFORM TASKS ON FILTERS.
T1190 T1-26 DO YOU PERFORM TASKS ON SPHERICAL MIRRORS.
T1191 T1-27 DO YOU PERFORM TASKS ON PLANE MIRRORS. | | 0 | 0 | 0 | 0 | 0 | 0 |
| T1192 T1-28 DO YOU PERFORM TASKS ON MIRRORS.
T1193 T1-29 DO YOU PERFORM TASKS ON MIRRORS.
T1194 T1-30 DO YOU PERFORM TASKS ON MIRRORS.
T1195 T1-31 DOES YOUR PRESENT JOB INVOLVE ANY TASKS DEALTING
WITH LASERS. | | 0 | 0 | 0 | 0 | 0 | 0 |
| T1196 T2-02 DO YOU INSPECT LASERS.
T1197 T2-03 DO YOU CLEAN LASERS.
T1198 T2-04 DO YOU ADJUST OR CALIBRATE LASERS. | | 0 | 0 | 0 | 0 | 0 | 0 |
| T1199 T2-05 DO YOU OPERATE LASERS. | | 0 | 0 | 0 | 0 | 0 | 0 |
| T1200 T2-06 DO YOU TROUBLESHOOT WIRE CONNECTIONS OF LASERS. | | 0 | 0 | 0 | 0 | 0 | 0 |
| T1201 T2-07 DO YOU TROUBLESHOOT MAJOR ASSEMBLIES OF LASERS.
T1202 T2-08 DO YOU TROUBLESHOOT DOWN TO COMPONENT PARTS OF
LASERS. | | 0 | 0 | 0 | 0 | 0 | 0 |
| T1203 T2-09 DO YOU REMOVE OR REPLACE MAJOR ASSEMBLIES OF
LASERS. | | 0 | 0 | 0 | 0 | 0 | 0 |
| T1204 T2-10 DO YOU REMOVE OR REPLACE COMPONENT PARTS OF
LASERS. | | 0 | 0 | 0 | 0 | 0 | 0 |
| T1205 T2-11 DO YOU USE OR REFER TO ANGSTROMS (A). | | 0 | 0 | 0 | 0 | 0 | 0 |
| T1206 T2-12 DO YOU USE OR REFER TO ELECTRON ENERGY LEVELS. | | 0 | 0 | 0 | 0 | 0 | 0 |
| T1207 T2-13 DO YOU USE OR REFER TO GROUND STATE. | | 0 | 0 | 0 | 0 | 0 | 0 |
| T1208 T2-14 DO YOU USE OR REFER TO EXCITED STATE. | | 0 | 0 | 0 | 0 | 0 | 0 |
| T1209 T2-15 DO YOU USE OR REFER TO PACETED RADIATION. | | 0 | 0 | 0 | 0 | 0 | 0 |
| T1210 T2-16 DO YOU USE OR REFER TO PHOTONS. | | 0 | 0 | 0 | 0 | 0 | 0 |
| T1211 T2-17 DO YOU USE OR REFER TO SPONTANEOUS EMISSION. | | 0 | 0 | 0 | 0 | 0 | 0 |
| T1212 T2-18 DO YOU USE OR REFER TO STIMULATED EMISSION. | | 0 | 0 | 0 | 0 | 0 | 0 |
| T1213 T2-19 DO YOU USE OR REFER TO COHERENCE OR INCOHERENCE. | | 0 | 0 | 0 | 0 | 0 | 0 |
| T1214 T2-20 DO YOU USE OR REFER TO INVERSION LEVEL. | | 0 | 0 | 0 | 0 | 0 | 0 |
| T1215 T2-21 DO YOU USE OR REFER TO NONCHROMATIC. | | 0 | 0 | 0 | 0 | 0 | 0 |
| T1216 T2-22 DO YOU WORK WITH ACTIVE MATERIALS. | | 0 | 0 | 0 | 0 | 0 | 0 |
| T1217 T2-23 DO YOU WORK WITH PUMPING SOURCE. | | 0 | 0 | 0 | 0 | 0 | 0 |
| T1218 T2-24 DO YOU WORK WITH FULL SILVERED (100% REFLECTIVE)
MIRRORS. | | 0 | 0 | 0 | 0 | 0 | 0 |
| T1219 T2-25 DO YOU WORK WITH HALF SILVERED (92% REFLECTIVE) | | 0 | 0 | 0 | 0 | 0 | 0 |

MIRRORS.

PCT MENS ANSWERS YES FOR MAIN BASIC SPS
 TASK GROUP SUMMARY
 PERCENT MEMBERS PERFORMING

SPUR 2 PAGE 97

| | MAINTENANCE | | |
|---|-------------|------------|------------|
| | 308X0 | 30830 | 30870 |
| DY-TSK | 6P
0017 | SPC
624 | SPC
025 |
| U1251 U1-09 DO YOU USE OR REFER TO DATA WORDS. | 29 | 19 | 33 |
| U1252 U1-10 DO YOU USE OR REFER TO ADDRESS WORDS. | 33 | 34 | 33 |
| U1253 U1-11 DO YOU USE OR REFER TO ADDRESS\SUBADDRESS. | 20 | 23 | 19 |
| U1254 U1-12 DO YOU USE OR REFER TO STEERING INFORMATION. | 15 | 11 | 16 |
| U1255 U1-13 DO YOU USE OR REFER TO INFORMATION WORDS. | 16 | 19 | 21 |
| U1256 U1-14 DO YOU PERFORM TASKS ON SINGLE LEVEL PROGRAMMING SYSTEMS. | 12 | 11 | 12 |
| U1257 U1-15 DO YOU PERFORM TASKS ON MULTI-LEVEL PROGRAMMING SYSTEMS. | 5 | 3 | 5 |
| U1258 U1-16 DO YOU PERFORM TASKS ON INPUT DEVICES. | 27 | 29 | 26 |
| U1259 U1-17 DO YOU PERFORM TASKS ON STORAGE DEVICES. | 25 | 23 | 26 |
| U1260 U1-18 DO YOU PERFORM TASKS ON ARITHMETIC SECTIONS. | 22 | 17 | 26 |
| U1261 U1-19 DO YOU PERFORM TASKS ON CONTROL SECTIONS. | 23 | 20 | 26 |
| U1262 U1-20 DO YOU PERFORM TASKS ON OUTPUT DEVICES. | 23 | 20 | 26 |
| U1263 U1-21 DO YOU PERFORM TASKS ON POWER SUPPLIES. | 29 | 29 | 26 |
| U1264 U1-22 DO YOU USE DECIBELS TO EXPRESS AMPLIFICATION AND ATTENUATION. | 67 | 69 | 67 |
| U1265 U1-23 DO YOU USE LOGARITHMS TO COMPUTE OUTPUT POWER IN DECIBELS. | 11 | 11 | 7 |
| U1266 U1-24 DO YOU USE LOGARITHMS TO COMPUTE ATTENUATION IN DECIBELS. | 11 | 11 | 7 |
| OTCZ DURANT QUESTION TO FACILITATE CHECK | 0 | 0 | 0 |

PCI HAS ANSWER YES FOR GROUP DAFSC GRS

TABULATION OF PERCENT MEMBERS PERFORMING DUTIES AND TASKS BY DAFSC
GROUPS IN THE 30800 CAREER FIELD.

REPORTS ON THE FOLLOWING GROUPS WERE REQUESTED

SIXTH PAGE 24

| GROUP IDENTITY | 6P0000 | STAGE | "KPAIN OROLN FROM 1 TO 64 | CONTAINING | 64 MEMBERS. |
|----------------|--------|--|---------------------------|-------------|-------------|
| GROUP IDENTITY | SP0024 | ALL MEMBERS OF 6P000 WHO ARE DAFSC 30830 | CONTAINING | 18 MEMBERS. | |
| GROUP IDENTITY | SPC027 | ALL MEMBERS OF 6P004 WHO ARE DAFSC 30870 | CONTAINING | 36 MEMBERS. | |

PCT. MEMS ANSWERS TEST FOR OPER. DATA SPS

EPSUMS PAGE 99

DUTY GROUP SUMMARY
PERCENT MEMBERS PERFORMINGOPERATIONS
308A0 30830 30870

| | BUTY | SP | SPC | SPC |
|---|---|-----|-----|-----|
| | 000% | 026 | 027 | |
| A | MATHEMATICS, DIRECT CURRENT, VOLTAGE, AND
RESISTANCE; ALTERNATING CURRENT, INDUCTIVE
COUPLING, AND CAPACITIVE REACTANCE; TRANSFORMERS;
AND MAGNETISM | 73 | 72 | 67 |
| B | MULTIVIBRATOR USES; ALTERNATING
CURRENT, INDUCTORS, AND CAPACITORS; CAPACITIVE
TRANSFORMERS; | 50 | 99 | 97 |
| C | | 5 | 6 | 6 |
| D | RCL CIRCUITS; SERIES AND PARALLEL
RESISTANCE (TIME CONSTANTS); AND FILTERS | 0 | 0 | 0 |
| E | SOLDERING, AND RELAYS | 0 | 0 | 0 |
| F | MICROPHONES, SPEAKERS, AND OSCILLOSCOPES | 66 | 76 | 97 |
| G | SEMICONDUCTOR DIODES, TRANSISTORS, AND TRANSISTOR
AMPLIFIERS | 0 | 0 | 0 |
| H | SOLID STATE SPECIAL PURPOSE DEVICES; POWER
SUPPLIES, AND OSCILLATORS | 4 | 4 | 4 |
| I | MULTIVIBRATORS, LIMITERS, CLAMPERS, AND ELECTRON TUBES | 2 | 0 | 3 |
| J | ELECTRON TUBE AMPLIFIERS AND CIRCUITS; SPECIAL
PURPOSE ELECTRON TUBES; HETERODYNING, MODULATION,
FM SYSTEMS, AND NUMBERING SYSTEMS | 6 | 11 | 6 |
| K | LOGIC FUNCTIONS, BOOLEAN EQUATIONS, AND COUNTERS | 67 | 36 | 76 |
| L | TIMING CIRCUITS; USE OF SIGNAL GENERATORS | 2 | 0 | 0 |
| M | MOTORS, AND GENERATORS | 11 | 22 | 4 |
| N | METER MOVEMENTS, SATURABLE REACTORS,
MAGNETIC AMPLIFIERS, AND WAVE-SHAPING CIRCUITS | 9 | 11 | 6 |
| O | SINGLE SIDEBAND SYSTEMS, PULSE MODULATION
SYSTEMS, AND ANTENNAS | 9 | 17 | 6 |
| P | TRANSMISSION LINES, WAVEGUIDES AND CAVITY
RESONATORS, AND MICROWAVE AMPLIFIERS AND OSCILLATORS | 0 | 0 | 0 |
| Q | RESISTERS, STORAGE DEVICES, AND
DIGITAL TO ANALOG CONVERTERS | 22 | 33 | 17 |
| R | PHANTOMS, SCHMIDT TRIGGERS, AND
CABLE FABRICATION | 0 | 0 | 0 |
| S | INPUT/OUTPUT DEVICES, PHOTO SENSITIVE
DEVICES, AND SYNCHRONOUS VIBRATIONS | 14 | 11 | 11 |
| T | INFRARED, LASERS, AND DISPLAY TUBES | 9 | 11 | 6 |
| U | PROGRAMMING, DB AND POWER RATIOS | 22 | 22 | 22 |

PCT MBR'S ANSWERS YES FOR OPEN DAYSC. 6P3
TASK GROUP SUMMARY
PERCENT MEMBERS PERFORMING

OPERATIONS PAGE 100

OPERATIONS
308XO 3C230 30870

DYNAMIC

GP SPC SPC

00004 026 027

- A 1 A1-01 DO YOU USE AN INSTRUMENT, SUCH AS METER OR AN OSCILLOSCOPE, IN WHICH IT IS NECESSARY TO AMPLIFY OR ORDER OR MAINTENANCE MANUAL, IN WHICH IT IS NECESSARY TO REARRANGE AND SOLVE FORMULAS OR EQUATIONS.
- A 2 A1-02 DO YOU USE A PUBLICATION, SUCH AS A TECHNICAL ORDER OR MAINTENANCE MANUAL, IN WHICH IT IS NECESSARY TO FIND THE SQUARE ROOT OF A QUANTITY.
- A 3 A1-03 DO YOU SOLVE FOR UNKNOWN QUANTITY.
- A 4 A1-04 DO YOU CONVERT NUMBERS TO LOGARITHMS.
- A 5 A1-05 DO YOU SOLVE FOR UNKNOWN QUANTITY.
- A 6 A1-06 DO YOU CONVERT NUMBERS TO LOGARITHMS.
- A 7 A1-07 DO YOU USE LOGARITHM TABLES IN ANY TYPE OF CALCULATIONS.

- A 8 A1-08 DO YOU SOLVE QUADRATIC EQUATIONS.
- A 9 A1-09 DO YOU USE THE NATURAL SYSTEM OF LOGARITHMS (THIS IS THE LOGARITHM SYSTEM WHICH USES THE NUMBER 2.718 AS A 10 A1-10 DO YOU WORK WITH VECTOR QUANTITIES, SUCH AS ADDING OR SUBTRACTING TWO VECTORS.
- A 11 A1-11 DO YOU WORK WITH TRIGONOMETRIC FUNCTIONS SUCH AS SINE, COSINE, OR TANGENT.
- A 12 A1-12 DO YOU DETERMINE AREAS OF PLANE FIGURES, SUCH AS AREAS OF CIRCLES OR TRIANGLES.
- A 13 A1-13 DO YOU SOLVE OR USE SIMULTANEOUS EQUATIONS.
- A 14 A1-14 DO YOU SOLVE OR USE PROPORTIONS.

- A 15 A2-01 DO YOU USE THE TERM VOLTAGE OR VOLT.
- A 16 A2-02 DO YOU USE THE TERM ELECTROMOTIVE FORCE (EMF).
- A 17 A2-03 DO YOU USE THE TERM OHM.
- A 18 A2-04 DO YOU USE THE TERM ION.
- A 19 A2-05 DO YOU USE THE TERM DYNE.
- A 20 A2-06 DO YOU USE THE TERM AMPERE.
- A 21 A2-07 DO YOU USE THE TERM NEUTRON.
- A 22 A2-08 DO YOU USE THE TERM COULOMB.

- A 23 A2-09 DO YOU USE THE TERM PROTON.
- A 24 A3-01 DO YOU WORK WITH RESISTORS IN YOUR PRESENT JOB.
- A 25 A3-02 DO YOU INSPECT RESISTORS.
- A 26 A3-03 DO YOU CLEAN RESISTORS.
- A 27 A3-04 DO YOU ADJUST RESISTORS.
- A 28 A3-05 DO YOU CHECK OHMIC VALUE OF RESISTORS.

- A 29 A3-06 DO YOU REMOVE OR REPLACE RESISTORS.
- A 30 A3-07 DO YOU USE OR REFER TO TEMPERATURE COEFFICIENTS FOR RESISTORS ON ANY TASKS IN YOUR PRESENT JOB.
- A 31 A3-08 DO YOU USE OR REFER TO RESISTOR SYMBOLS, SUCH AS FOR FIXED RESISTORS OR FOR TAPPED RESISTORS.
- A 32 A3-09 DO YOU IDENTIFY OR CLASSIFY THE RESISTORS YOU WORK WITH AS CARBON, FIXED WIRE, SLIDE WIRE, RHEOSTAT OR

MODULE 3 - ELECTRONIC MATHEMATICS

MODULE 4 - DIRECT CURRENT AND VOLTAGE

MODULE 5 - RESISTANCE, RESISTORS, AND SCHEMATIC SYMBOLS

PCI ABILITY ANSWER YES FOR OPER. DATA SP2
 TASK GROUP SUMMARY
 PERCENT MEMBERS PERFORMING

SESSION PAGE 102

OPERATIONS

308X0 30830 30670

BY-TASK

- 8 81-08 DO YOU DIRECTLY USE A QUANTITY OF CHARGE CALLED
 A COULOMB.

- 8 81-09 DO YOU READ SCHEMATICS.

- 8 81-10 DO YOU USE OR REFER THE TERM EFFECTIVE VOLTAGE

- INAMS.

- 8 82-02 DO YOU USE OR REFER THE TERM PEAK TO PEAK VOLTAGE.

- 8 82-03 DO YOU USE OR REFER THE TERM AVERAGE VOLTAGE (DC).

- 8 82-04 DO YOU USE OR REFER THE TERM MAX LENGTH.

- 8 82-05 DO YOU USE OR REFER THE TERM FREQUENCY.

- 8 82-06 DO YOU USE OR REFER THE TERM INSTANTANEOUS VALUE.

- 8 83-01 DO YOU WORK WITH INDUCTORS OR CIRCUITS CONTAINING

- INDUCTORS, CHOKEs, OR CHOKE COILS IN YOUR PRESENT JOB.

- 8 83-02 DO YOU INSPECT INDUCTORS.

- 8 83-03 DO YOU CLEAN INDUCTORS.

- 8 83-04 DO YOU ADJUST INDUCTORS.

- 8 83-05 DO YOU REMOVE OR REPLACE INDUCTORS.

- 8 83-06 DO YOU USE OR REFER TO INDUCTANCE.

- 8 83-07 DO YOU USE OR REFER TO HENRIES.

- 8 83-08 DO YOU USE OR REFER TO INDUCTIVE REACTANCE.

- 8 83-09 DO YOU USE OR REFER TO COPPER LOSS IN INDUCTORS.

- 8 83-10 DO YOU USE OR REFER TO HYSTERESIS LOSS IN

- INDUCTORS.

- 8 83-11 DO YOU USE OR REFER TO EDDY CURRENT LOSS IN

- INDUCTORS.

- 8 83-12 DO YOU USE OR REFER TO THE GENERAL RULE THAT
 INDUCTANCE IS PROPORTIONAL TO THE SQUARE OF THE

- 8 83-13 DO YOU USE OR REFER TO THE GENERAL RULE THAT THE
 INDUCTANCE OF A COIL IS DIRECTLY PROPORTIONAL TO THE

- 8 83-14 DO YOU USE OR REFER TO THE GENERAL RULE THAT
 THE INDUCTANCE OF A COIL IS INVERSELY PROPORTIONAL TO

- 8 83-15 DO YOU USE OR REFER TO THE GENERAL RULE THAT THE
 INDUCTANCE OF A COIL IS DIRECTLY PROPORTIONAL TO THE

- 8 83-16 DO YOU CALCULATE INDUCTANCE FOR A PARTICULAR

- INDUCTOR USING FORMULAS.

- 8 83-17 DO YOU CALCULATE THE TOTAL INDUCTANCE FOR

- INDUCTORS IN SERIES.

- 8 83-18 DO YOU CALCULATE THE TOTAL INDUCTANCE FOR

- INDUCTORS IN PARALLEL.

- 8 83-19 DO YOU CALCULATE THE TOTAL INDUCTANCE FOR

- INDUCTORS IN SERIES-PARALLEL CIRCUITS.

- 8 83-20 DO YOU USE OR REFER TO THE GENERAL RULE THAT
 CURRENT LASS VOLTAGE IN AC INDUCTOR CIRCUITS.

- 8 83-21 DO YOU CALCULATE INDUCTIVE REACTANCE.

SPC

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MODULE 11 - COMPUTATION AND
 FREQUENCY SPEC-RUN

MODULE 11 - COMPUTATION AND
 FREQUENCY SPEC-RUN

MODULE 14 -

INDUCTORS AND
 REACTANCE

PCT MINS ANSWING YES FOR OPER. BASIC ARE
TASK GROUP SUMMARY
PERCENT MEMBERS PERFORMING

SECTION P/GP_103

OPERATIONS

308X0 30830 30270

| | Q/T-SK | 6P | SPC | SPC |
|--|--------|------|-----|-----|
| | | 0004 | 026 | 027 |
| C 88 C1-22 DO YOU USE OR REFER TO THE GENERAL RULE THAT
INDUCTIVE REACTANCE IS DIRECTLY PROPORTIONAL TO
WORK WITH POWER INDUCTORS. | | 0 | 0 | 0 |
| C 89 C1-23 DO YOU WORK WITH POWER INDUCTORS. | | 2 | 0 | 3 |
| C 90 C1-24 DO YOU WORK WITH AUDIO FREQUENCY INDUCTORS. | | 2 | 0 | 1 |
| C 91 C1-25 DO YOU WORK WITH RADIO FREQUENCY INDUCTORS. | | 0 | 0 | 0 |
| C 92 C1-01 DO YOU WORK WITH CAPACITORS OR CIRCUITS
CONTAINING CAPACITORS ON YOUR PRESENT JOB. | | 2 | 0 | 1 |
| C 93 C1-02 DO YOU INSPECT CAPACITORS. | | 0 | 0 | 0 |
| C 94 C1-03 DO YOU CLEAN CAPACITORS. | | 0 | 0 | 0 |
| C 95 C1-04 DO YOU ADJUST CAPACITORS. | | 0 | 0 | 0 |
| C 96 C1-05 DO YOU TEST CAPACITORS. | | 0 | 0 | 0 |
| C 97 C1-06 DO YOU DISCHARGE CAPACITORS. | | 0 | 0 | 0 |
| C 98 C1-07 DO YOU REMOVE OR REPLACE CAPACITORS. | | 0 | 0 | 0 |
| C 99 C1-08 DO YOU USE OR REFER TO DISTRIBUTED CAPACITANCE. | | 0 | 0 | 0 |
| C 100 C1-09 DO YOU USE OR REFER TO ORBITAL STRESS OF ELECTRONS
IN A DIELECTRIC. | | 0 | 0 | 0 |
| C 101 C1-10 DO YOU USE OR REFER TO FARADS, MICROFARADS, OR
PICOFARADS. | | 0 | 0 | 0 |
| C 102 C1-11 DO YOU USE OR REFER TO CAPACITANCE. | | 0 | 0 | 0 |
| C 103 C1-12 DO YOU USE OR REFER TO DIELECTRIC CONSTANT. | | 0 | 0 | 0 |
| C 104 C1-13 DO YOU USE OR REFER TO WORKING VOLTAGE RATING OF
CAPACITORS. | | 0 | 0 | 0 |
| C 105 C1-14 DO YOU USE OR REFER TO CAPACITIVE REACTANCE. | | 0 | 0 | 0 |
| C 106 C1-15 DO YOU USE OR REFER TO CAPACITOR COLOR CODES. | | 0 | 0 | 0 |
| C 107 C1-16 THE CAPACITORS YOU WORK WITH IN DC CIRCUITS. | | 0 | 0 | 0 |
| C 108 C1-17 THE CAPACITORS YOU WORK WITH ARE IN AC CIRCUITS. | | 0 | 0 | 0 |
| C 109 C1-18 THE CAPACITORS YOU WORK WITH ARE IN CIRCUITS WITH
BOTH DC AND AC. | | 0 | 0 | 0 |
| C 110 C1-19 THE CAPACITORS YOU WORK WITH ARE DON'T REMEMBER
WHAT CIRCUITS. | | 0 | 0 | 0 |
| C 111 C1-20 DO YOU CALCULATE CAPACITANCE FOR A PARTICULAR
CAPACITOR USING FORMULAS. | | 0 | 0 | 0 |
| C 112 C1-21 DO YOU USE OR REFER TO THE GENERAL RULE THAT THE
CAPACITANCE OF A CAPACITOR IS DIRECTLY PROPORTIONAL | | 0 | 0 | 0 |
| C 113 C1-22 DO YOU USE OR REFER TO THE GENERAL RULE THAT THE
CAPACITANCE OF A CAPACITOR IS INVERSELY PROPORTIONAL | | 0 | 0 | 0 |
| C 114 C1-23 DO YOU CALCULATE THE TOTAL CAPACITANCE OF
CAPACITORS IN SERIES. | | 0 | 0 | 0 |
| C 115 C1-24 DO YOU CALCULATE THE TOTAL CAPACITANCE OF
CAPACITORS IN PARALLEL. | | 0 | 0 | 0 |
| C 116 C1-25 DO YOU CALCULATE THE TOTAL CAPACITANCE OF
CAPACITORS IN SERIES-PARALLEL CIRCUITS. | | 0 | 0 | 0 |
| C 117 C1-26 DO YOU USE OR REFER TO THE GENERAL RULE THAT
CURRENT DOES NOT FLOW THROUGH CAPACITORS, IT ONLY | | 0 | 0 | 0 |

PCT WORKS ANSWER SETS FOR OPEN DAYSC GPS
 TASK GROUP SUMMARY
 PERCENT MEMBERS PERFORMING

GPSUH PAGE 104

| OPERATIONS | DY-TSK | | |
|---|-------------|------------|------------|
| | SPC
0004 | SPC
026 | SPC
027 |
| C 118 C1-27 DO YOU USE OR REFER TO THE GENERAL RULE THAT CURRENT LEADS VOLTAGE IN AC CAPACITOR CIRCUITS. | 0 | 0 | 0 |
| C 119 C1-28 DO YOU USE OR REFER TO THE GENERAL RULE THAT CAPACITIVE REACTANCE IS INVERSELY PROPORTIONAL TO CAPACITANCE? | 0 | 0 | 0 |
| C 120 C1-29 DO YOU CALCULATE CAPACITIVE REACTANCE? | 0 | 0 | 0 |
| C 121 C1-30 DO YOU WORK WITH ROTOR-STATOR CAPACITORS (VARIABLE)? | 0 | 0 | 0 |
| C 122 C1-31 DO YOU WORK WITH COMPRESSION (STIMMEN) CAPACITORS. | 0 | 0 | 0 |
| C 123 C1-32 DO YOU WORK WITH ELECTROLYtic CAPACITORS (FIXED)? | 0 | 0 | 0 |
| C 124 C1-33 DO YOU WORK WITH PAPER CAPACITORS (FIXED)? | 0 | 0 | 0 |
| C 125 C1-34 DO YOU WORK WITH MICA CAPACITORS (FIXED)? | 0 | 0 | 0 |
| C 126 C1-35 DO YOU WORK WITH CERAMIC CAPACITORS (FIXED)? | 0 | 0 | 0 |
| C 127 C1-36 DO YOU WORK WITH DON'T REMEMBER WHICH TYPE OF CAPACITORS. | 0 | 0 | 0 |
| C 128 C2-01 DO YOU WORK WITH TRANSFORMERS ON YOUR PRESENT JOB? | 0 | 0 | 0 |
| C 129 C2-02 DO YOU INSPECT TRANSFORMERS. | 0 | 0 | 0 |
| C 130 C2-03 DO YOU CLEAN TRANSFORMERS. | 0 | 2 | 0 |
| C 131 C2-04 DO YOU ADJUST TRANSFORMERS. | 0 | 0 | 0 |
| C 132 C2-05 DO YOU TROUBLESHOOT TRANSFORMERS. | 0 | 0 | 0 |
| C 133 C2-06 DO YOU REMOVE OR REPLACE COMPLETE TRANSFORMERS. | 0 | 0 | 0 |
| C 134 C2-07 DO YOU REMOVE OR REPLACE TRANSFORMER PARTS, SUCH AS THE PRIMARY WINDING. | 0 | 0 | 0 |
| C 135 C2-08 DO YOU MAKE A DISTINCTION BETWEEN MUTUAL INDUCTION (M) AND MUTUAL INDUCTANCE (M)? | 0 | 0 | 0 |
| C 136 C2-09 DO YOU USE THE SYMBOL FOR MUTUAL INDUCTANCE, "M" OR "M"? | 0 | 0 | 0 |
| C 137 C2-10 DO YOU REFER TO OR USE THE COEFFICIENT OF COUPLING WHEN WORKING WITH TRANSFORMERS. | 0 | 0 | 0 |
| C 138 C2-11 DO YOU CALCULATE TURNS RATIOS FOR TRANSFORMERS USING CURRENT OR VOLTAGE RATIOS. | 0 | 0 | 0 |
| C 139 C2-12 DO YOU REFER TO REFLECTED IMPEDANCE WHEN WORKING WITH TRANSFORMERS. | 0 | 0 | 0 |
| C 140 C2-13 DO YOU CALCULATE IMPEDANCE INTERACTIONS FOR TRANSFORMERS. | 0 | 0 | 0 |
| C 141 C2-14 DO YOU WORK WITH AUTOTRANSFORMERS. | 0 | 0 | 0 |
| C 142 C2-15 DO YOU WORK WITH POWER TRANSFORMERS. | 0 | 0 | 0 |
| C 143 C2-16 DO YOU WORK WITH AUDIO TRANSFORMERS. | 0 | 0 | 0 |
| C 144 C2-17 DO YOU WORK WITH RADIO FREQUENCY TRANSFORMERS. | 0 | 0 | 0 |
| C 145 C2-18 DO YOU WORK WITH DC POWER TRANSFORMERS. | 0 | 0 | 0 |
| C 146 C2-19 DO YOU CHECK TRANSFORMERS FOR OPEN WINDINGS BY MEASURING RESISTANCE. | 0 | 0 | 0 |
| C 147 C2-20 DO YOU CHECK TRANSFORMERS FOR SHORTED WINDINGS BY MEASURING RESISTANCE. | 0 | 0 | 0 |
| C 148 C2-21 DO YOU CHECK TRANSFORMERS FOR SHORTED WINDINGS BY MEASURING OUTPUT VOLTAGES. | 0 | 0 | 0 |
| C 149 C2-22 DO YOU MEASURE RESISTANCE OF TRANSFORMER WINDINGS TO DETERMINE WHETHER A TRANSFORMER WAS A STEP-UP OR | 0 | 0 | 0 |

MATERIALS.

MODULE 13 - MAGNETISM

C 174 C0-00000 YOU USE OR REFER TO RELUCTANCE OF MAGNETIC MATERIALS.

MATERIALS.

C 175 C0-01000 YOU USE OR REFER TO RETENTIVITY OF MAGNETIC MATERIALS.

MATERIALS.

C 176 C0-02000 YOU USE OR REFER TO PERMEABILITY MAGNETICS.

MATERIALS.

C 177 C0-03000 YOU USE OR REFER TO PHASE TRANSFORMERS.

MATERIALS.

C 178 C0-04000 YOU USE OR REFER TO THREE-PHASE COUPLED PHASES.

MATERIALS.

C 179 C0-05000 YOU USE OR REFER TO THREE-PHASE TRANSFORMERS.

MATERIALS.

C 180 C0-06000 YOU USE OR REFER TO THREE-PHASE TRANSFORMERS.

MATERIALS.

C 181 C0-07000 YOU USE OR REFER TO THREE-PHASE TRANSFORMERS.

MATERIALS.

C 182 C0-08000 YOU USE OR REFER TO THREE-PHASE TRANSFORMERS.

MATERIALS.

C 183 C0-09000 YOU USE OR REFER TO THREE-PHASE TRANSFORMERS.

MATERIALS.

C 184 C0-10000 YOU USE OR REFER TO THREE-PHASE TRANSFORMERS.

MATERIALS.

C 185 C0-11000 YOU USE OR REFER TO THREE-PHASE TRANSFORMERS.

MATERIALS.

C 186 C0-12000 YOU USE OR REFER TO THREE-PHASE TRANSFORMERS.

MATERIALS.

C 187 C0-13000 YOU USE OR REFER TO THREE-PHASE TRANSFORMERS.

MATERIALS.

C 188 C0-14000 YOU USE OR REFER TO THREE-PHASE TRANSFORMERS.

MATERIALS.

C 189 C0-15000 YOU USE OR REFER TO THREE-PHASE TRANSFORMERS.

MATERIALS.

C 190 C0-16000 YOU USE OR REFER TO THREE-PHASE TRANSFORMERS.

MATERIALS.

C 191 C0-17000 YOU USE OR REFER TO THREE-PHASE TRANSFORMERS.

MATERIALS.

C 192 C0-18000 YOU USE OR REFER TO THREE-PHASE TRANSFORMERS.

MATERIALS.

C 193 C0-19000 YOU USE OR REFER TO THREE-PHASE TRANSFORMERS.

MATERIALS.

C 194 C0-20000 YOU USE OR REFER TO THREE-PHASE TRANSFORMERS.

MATERIALS.

C 195 C0-21000 YOU USE OR REFER TO THREE-PHASE TRANSFORMERS.

MATERIALS.

C 196 C0-22000 YOU USE OR REFER TO THREE-PHASE TRANSFORMERS.

MATERIALS.

C 197 C0-23000 YOU USE OR REFER TO THREE-PHASE TRANSFORMERS.

MATERIALS.

C 198 C0-24000 YOU USE OR REFER TO THREE-PHASE TRANSFORMERS.

MATERIALS.

C 199 C0-25000 YOU USE OR REFER TO THREE-PHASE TRANSFORMERS.

MATERIALS.

C 200 C0-26000 YOU USE OR REFER TO THREE-PHASE TRANSFORMERS.

MATERIALS.

C 201 C0-27000 YOU USE OR REFER TO THREE-PHASE TRANSFORMERS.

MATERIALS.

C 202 C0-28000 YOU USE OR REFER TO THREE-PHASE TRANSFORMERS.

MATERIALS.

C 203 C0-29000 YOU USE OR REFER TO THREE-PHASE TRANSFORMERS.

MATERIALS.

C 204 C0-30000 YOU USE OR REFER TO THREE-PHASE TRANSFORMERS.

MATERIALS.

C 205 C0-31000 YOU USE OR REFER TO THREE-PHASE TRANSFORMERS.

MATERIALS.

C 206 C0-32000 YOU USE OR REFER TO THREE-PHASE TRANSFORMERS.

MATERIALS.

C 207 C0-33000 YOU USE OR REFER TO THREE-PHASE TRANSFORMERS.

MATERIALS.

C 208 C0-34000 YOU USE OR REFER TO THREE-PHASE TRANSFORMERS.

MATERIALS.

C 209 C0-35000 YOU USE OR REFER TO THREE-PHASE TRANSFORMERS.

MATERIALS.

C 210 C0-36000 YOU USE OR REFER TO THREE-PHASE TRANSFORMERS.

MATERIALS.

C 211 C0-37000 YOU USE OR REFER TO THREE-PHASE TRANSFORMERS.

MATERIALS.

C 212 C0-38000 YOU USE OR REFER TO THREE-PHASE TRANSFORMERS.

MATERIALS.

C 213 C0-39000 YOU USE OR REFER TO THREE-PHASE TRANSFORMERS.

MATERIALS.

C 214 C0-40000 YOU USE OR REFER TO THREE-PHASE TRANSFORMERS.

MATERIALS.

C 215 C0-41000 YOU USE OR REFER TO THREE-PHASE TRANSFORMERS.

MATERIALS.

C 216 C0-42000 YOU USE OR REFER TO THREE-PHASE TRANSFORMERS.

MATERIALS.

C 217 C0-43000 YOU USE OR REFER TO THREE-PHASE TRANSFORMERS.

MATERIALS.

C 218 C0-44000 YOU USE OR REFER TO THREE-PHASE TRANSFORMERS.

MATERIALS.

C 219 C0-45000 YOU USE OR REFER TO THREE-PHASE TRANSFORMERS.

MATERIALS.

OPERATIONS

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DATA SHEET

DATA SHEET NUMBER: 30870
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TASK GROUP SUMMARY
PERCENT MEMBERS PERFORMING

SPSUMM PAGE 104

OPERATIONS
308X0 30830 30870

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C 175 C3-05 DO YOU USE OR REFER TO PERMEABILITY OF MAGNETIC MATERIALS.

C 176 C3-06 DO YOU USE OR REFER TO RESIDUAL MAGNETISM.

C 177 C3-07 DO YOU USE OR REFER TO MAGNETIC LINES OF FORCE OR FLUX.

C 178 C3-08 DO YOU USE OR REFER TO HÉBER'S THEORY OF MAGNETISM.

C 179 C3-09 DO YOU USE OR REFER TO THE DOMAIN THEORY OF MAGNETISM.

C 180 C3-10 DO YOU USE OR REFER TO MAGNETIC INDUCTION.

C 181 C3-11 DO YOU USE OR REFER TO FLUX DENSITY.

C 182 C3-12 DO YOU USE OR REFER TO THE GENERAL RULE THAT FOR

C 183 C3-13 DO YOU USE THE LEFT HAND THUMB RULE TO FIND THE DIRECTION OF MAGNETIC FIELDS ABOUT STRAIGHT WIRES.

C 184 C3-14 DO YOU USE THE LEFT THUMB RULE TO FIND THE NORTH POLE OF A CURRENT CARRYING COIL.

D 185 Q1-01 DO YOU WORK WITH RC, LR, OR RCL CIRCUITS ON YOUR PRESENT JOB.

D 186 Q1-02 DO YOU USE OR REFER TO VECTORS WHEN WORKING WITH RCL CIRCUITS.

D 187 Q1-03 DO YOU USE OR REFER TO PYTHAGOREAN THEOREM WHEN WORKING WITH RCL CIRCUITS.

D 188 Q1-04 DO YOU USE OR REFER TO SINE WHEN WORKING WITH RCL CIRCUITS.

D 189 Q1-05 DO YOU USE OR REFER TO COSINE WHEN WORKING WITH RCL CIRCUITS.

D 190 Q1-06 DO YOU USE OR REFER TO TANGENT WHEN WORKING WITH RCL CIRCUITS.

D 191 Q1-07 DO YOU USE OR REFER TO WATTS WHEN WORKING WITH RCL CIRCUITS.

D 192 Q1-08 DO YOU USE OR REFER TO TRUE POWER (PT) WHEN WORKING WITH RCL CIRCUITS.

D 193 Q1-09 DO YOU USE OR REFER TO MAXIMUM POWER (PM) WHEN WORKING WITH RCL CIRCUITS.

D 194 Q1-10 DO YOU USE OR REFER TO AVERAGE POWER (PAVE) WHEN WORKING WITH RCL CIRCUITS.

D 195 Q1-11 DO YOU USE OR REFER TO APPARENT POWER (PA) WHEN WORKING WITH RCL CIRCUITS.

D 196 Q1-12 DO YOU USE OR REFER TO POWER FACTOR (PF) WHEN WORKING WITH RCL CIRCUITS.

D 197 Q1-13 DO YOU USE OR REFER TO RESONANT CIRCUITS WHEN WORKING WITH RCL CIRCUITS.

D 198 Q1-14 DO YOU USE OR REFER TO BANDWIDTH WHEN WORKING WITH RCL CIRCUITS.

D 199 Q1-15 DO YOU USE OR REFER TO SELECTIVITY WHEN WORKING WITH RCL CIRCUITS.

MODULE 7 - SERIES RESISTIVE CIRCUIT

MODULE 8 - PARALLEL RESISTIVE CIRCUITS

MODULE 9 - SERIES-PARALLEL RESISTIVE CIRCUITS

MODULE 21 - SERIES RCL CIRCUITS

MODULE 22 - PARALLEL RCL CIRCUITS

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 TASK GROUP SUMMARY
 PERCENT MEMBERS PERFORMING

EXPOSURE PAGE 108

OPERATIONS

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- D 225 D1-91 DO YOU USE OR REFER TO THE GENERAL RULE THAT LINE CURRENT IS MINIMUM AND IMPEDANCE MAXIMUM AT
 0 226 D1-92 DO YOU USE OR REFER TO THE GENERAL RULE THAT HALF POWER POINTS ARE AT 70.7 PERCENT OF THE PEAK
 D 227 D1-93 DO YOU USE OR REFER TO THE GENERAL RULE THAT BANDWIDTH IS INVERSELY PROPORTIONAL TO Q.
 0 228 D1-94 DO YOU DETERMINE HOW CHANGES IN FREQUENCY, RESISTANCE, CAPACITANCE, OR INDUCTANCE WILL AFFECT
 D 229 D2-01 IN YOUR PRESENT JOB, DO YOU WORK WITH USE, OR REFER TO SERIES OR PARALLEL RESONANCE CIRCUITS OR
 D 230 D2-02 DO YOU WORK WITH USE, OR REFER TO TIME CONSTANTS.
 0 231 D2-03 DO YOU WORK WITH USE, OR REFER TO AVAILABLE VOLTAGE.
 D 232 D2-04 DO YOU WORK WITH USE, OR REFER TO TRANSIENT INTERVALS.
 D 233 D2-05 DO YOU USE OR REFER TO THE GENERAL RULE THAT A CAPACITOR IS FULLY CHARGED (OR DISCHARGED) AFTER FIVE
 D 234 D2-06 DO YOU USE OR REFER TO UNIVERSAL TIME CONSTANT CHARTS.
 D 235 D2-07 DO YOU USE EQUATIONS OR FORMULAS TO DETERMINE CIRCUITS CURRENT OR COMPONENT VOLTAGES AFTER A
 D 236 D2-08 DO YOU USE EQUATIONS OR FORMULAS TO DETERMINE THE TIME REQUIRED FOR CIRCUIT CURRENT OR COMPONENT
 D 237 D2-09 DO YOU USE EQUATIONS OR FORMULAS TO DETERMINE COMPONENT VALUES REQUIRED FOR CIRCUIT CURRENT AND
 D 238 D2-10 DO YOU USE OR REFER TO THE GENERAL RULE THAT CURRENT IN LR CIRCUITS REACHES ITS MINIMUM VALUE (OR
 D 239 D2-11 DO YOU WORK WITH CIRCUITS USED AS FILTERS ON YOUR PRESENT JOB.
 D 240 D3-02 DO YOU INSPECT FILTER CIRCUITS.
 0 241 D3-03 DO YOU CLEAN FILTER CIRCUITS.
 0 242 D3-04 DO YOU ALIGN OR ADJUST FILTER CIRCUITS.
 D 243 D3-05 DO YOU TROUBLESHOOT TO THE FILTER CIRCUIT.
 D 244 D3-06 DO YOU TROUBLESHOOT TO COMPONENT PARTS OF FILTER CIRCUITS.

- D 245 D3-07 DO YOU REMOVE OR REPLACE THE COMPLETE FILTER CIRCUIT.
 D 246 D3-08 DO YOU TROUBLESHOOT TO THE FILTER CIRCUIT.
 D 247 D3-09 DO YOU TROUBLESHOOT TO THE FILTER CIRCUIT.
 D 248 D3-10 DO YOU TROUBLESHOOT TO THE FILTER CIRCUIT.
 D 249 D3-11 DO YOU TROUBLESHOOT TO THE FILTER CIRCUIT.
 D 250 D3-12 DO YOU TROUBLESHOOT TO THE FILTER CIRCUIT.

MODULE 24 - SÉRIES RÉSONANCE

MODULE 25 - PARALLEL RESISTANCE

MODULE 26 - TIME CONSTANTS

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TASK GROUP SUMMARY
PERCENT MEMBERS PERFORMING

| OPERATIONS | SPC | SPC | SPC |
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D 246 E1-06 DO YOU REMOVE OR REPLACE COMPONENT PARTS OF FILTER CIRCUITS.

D 247 E1-06 DO YOU WORK ON LOW PASS FILTERS.

D 248 E1-06 DO YOU WORK ON HIGH PASS FILTERS.

D 249 E1-06 DO YOU WORK ON BANDPASS FILTERS.

D 250 E1-06 DO YOU REMEMBER WHICH TYPE OF FILTER

D 251 E1-06 DO YOU WORK WITH L-SECTION FILTER CONFIGURATIONS.

D 252 E1-06 DO YOU WORK WITH T-SECTION FILTER CONFIGURATIONS.

D 253 E1-06 DO YOU WORK WITH R-SECTION FILTER CONFIGURATIONS.

D 254 E1-06 DO YOU WORK WITH PI-SECTION FILTER CONFIGURATIONS.

D 255 E1-06 DO YOU WORK WITH DON'T REMEMBER WHICH TYPE OF

FILTER CONFIGURATIONS.

D 256 E1-06 DO YOU WORK WITH RESONANT CIRCUITS USED IN FILTERS.

D 257 E1-06 DO YOU WORK WITH SERIES-PARALLEL CIRCUITS USED IN FILTERS.

D 258 E1-06 ARE SERIES RESONANT CIRCUITS USED IN FILTERS

D 259 E1-06 DO YOU REMEMBER WHICH TYPE OF BASIC CIRCUIT

USED IN FILTERS YOU WORK WITH.

D 260 E1-22 DO YOU USE EQUATIONS OR FORMULAS TO DETERMINE

CAPACITANCE OR INDUCTANCE VALUES REQUIRED FOR SPECIFIC

E 261 E1-07 DO YOU WORK WITH COUPLING DEVICES OR YOUR PRESENT

JOB.

E 262 E1-02 DO YOU IDENTIFY ON SCHEMATIC DIAGRAMS AND

RELAY TO THE ACTUAL CIRCUITRY THE COMPONENTS ASSOCIATED

E 263 E1-03 DO YOU IDENTIFY ON SCHEMATIC DIAGRAMS AND RELAY

TO THE ACTUAL CIRCUITRY THE COMPONENTS ASSOCIATED

E 264 E1-04 DO YOU IDENTIFY ON SCHEMATIC DIAGRAMS AND RELAY

TO THE ACTUAL CIRCUITRY THE COMPONENTS ASSOCIATED

E 265 E1-05 DO YOU TROUBLESHOOT CIRCUITS WHICH HAVE COMPONENTS

WHICH PERFORM THE AC COUPLING FUNCTIONS.

E 266 E1-06 DO YOU TROUBLESHOOT CIRCUITS WHICH HAVE COMPONENTS

WHICH PERFORM THE IMPEDANCE COUPLING FUNCTIONS?

E 267 E1-07 DO YOU TROUBLESHOOT CIRCUITS WHICH HAVE COMPONENTS

WHICH PERFORM THE TRANSFORMER COUPLING FUNCTIONS.

E 268 E1-08 DO YOU WORK WITH DIRECTLY COUPLED CIRCUITS.

E 269 E1-09 DO YOU WORK WITH CAPACITIVE-INDUCTIVE COUPLED

CIRCUITS.

E 270 E1-10 DO YOU WORK WITH CAPACITIVE-RESISTIVE COUPLED

CIRCUITS.

E 271 E1-11 DO YOU WORK WITH TRANSFORMER COUPLED CIRCUITS.

E 272 E1-12 DO YOU WORK WITH DON'T REMEMBER WHICH TYPE OF

COUPLING CIRCUIT.

MODULE 28 - COUPLING

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 TASK GROUP SUMMARY
 PERCENT NUMBER PERFORMING

SP554 PAGE 110

OPERATIONS
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E 273 E2-01 DO YOU PRESENT JUGS DO YOU PERFORM SOLDERING
 TECHNIQUES OR INSPECT OR EVALUATE SOLDERED CONNECTIONS.

E 274 E2-02 DO YOU SELECT TYPE OF SOLDER TO USE.

E 275 E2-03 DO YOU ADD FLUX TO CONNECTIONS.

E 276 E2-04 DO YOU CLEAN CONNECTIONS USING SOLVENTS.

E 277 E2-05 DO YOU STRIP INSULATION FROM WIRES.

E 278 E2-06 DO YOU CONNECT OR DISCONNECT HEAT SINKS.

E 279 E2-07 DO YOU BEND OR SHAPE WIRES OR LEADS.

E 280 E2-08 DO CUT WIRES.

E 281 E2-09 DO YOU FILE OR SHAPE SOLDERING IRON TIPS.

E 282 E2-10 DO YOU TIN SOLDERING IRON TIPS.

E 283 E2-11 DO YOU CLEAN SOLDERING IRON TIPS.

E 284 E2-12 DO YOU CLEAN ELECTRICAL SURFACES USING ERASERS.

E 285 E2-13 DO YOU TIN OR PRE-TIN CONDUCTORS.

E 286 E2-14 DO YOU INSPECT SOLDERED CONNECTIONS.

E 287 E2-15 DO YOU DESOLDER CONNECTIONS BY WICKING.

E 288 E2-16 DO YOU DESOLDER CONNECTIONS USING VACUUM

DESOLDERING TOOLS.

E 289 E2-17 DO YOU CUT COMPONENT LEADS TO REMOVE COMPONENTS.

E 290 E2-18 DO YOU CRUSH COMPONENTS FOR REMOVAL.

E 291 E2-19 DO YOU MAKE HARDWIRE TURNEY CONNECTIONS.

E 292 E2-20 DO YOU MAKE HARDWIRE BIPOLAR CONNECTIONS.

E 293 E2-21 DO YOU MAKE PRINTED CIRCUIT BOARD TURRET

CONNECTIONS.

E 294 E2-22 DO YOU MAKE PRINTED CIRCUIT BOARD BIPOLAR

CONNECTIONS.

E 295 E2-23 DO YOU MAKE PRINTED CIRCUIT BOARD TERMINAL PADS.

E 296 E2-24 DO YOU SOLDER PASSIVE COMPONENTS SUCH AS RESISTORS

OR CAPACITORS ON PRINTED CIRCUIT BOARDS.

E 297 E2-25 DO YOU SOLDER ACTIVE COMPONENTS SUCH AS SOLID

STATE DIODES OR TRANSISTORS ON PRINTED CIRCUIT BOARDS.

E 298 E2-26 DO YOU WORK WITH RELAYS.

E 299 E2-27 DO YOU CLEAN RELAYS.

E 300 E2-28 DO YOU REPAIR RELAYS.

E 301 E2-29 DO YOU INSPECT RELAYS.

E 302 E2-30 DO YOU REMOVE OR REPLACE PARTS OF RELAY.

E 303 E2-31 DO YOU REMOVE OR REPLACE RELAY CONTACTS.

E 304 E2-32 DO YOU PERFORM ANY TASKS ON RELAY CORE.

E 305 E2-33 DO YOU PERFORM ANY TASKS ON RELAY COIL.

E 306 E2-34 DO YOU PERFORM ANY TASKS ON RELAY ARMATURE.

E 307 E2-35 DO YOU PERFORM ANY TASKS ON RELAY SPRAINS.

E 308 E2-36 DO YOU USE OR ROPER TO THE SINGLE POLE, SINGLE

THROW (SPST) - NORMALLY OPEN (NO), SCHEMATIC SYMBOLS

MODULE 76 - SOLDERING - CCLS AND

MATERIALS

MODULE 77 - SOLDERING AND DESOLDERING

PROCEDURES

MODULE 16 - RELAYS

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TASK GROUP SUMMARY
PERCENT METHODS PERFORMING

OPERATION

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- E 312 F1-01 DO YOU USE OR REFER TO THE SINGLE POLE, SIMPLE THREE (SPST), NORMALLY CLOSED (NC) SEMANTIC SYMBOLS? 0 0 0
- E 313 F1-01 DO YOU USE OR REFER TO THE SINGLE POLE, DOUBLE THREE (SPDT) SEMANTIC SYMBOLS FOR RELAYS? 0 0 0
- E 314 F1-01 DO YOU USE OR REFER TO THE DOUBLE POLE, DOUBLE THREE (SPDT) SEMANTIC SYMBOLS FOR RELAYS? 0 0 0
- E 315 F1-01 DO YOU USE OR REFER TO THE OTHER RELAY SYMBOLS, SEMANTIC SYMBOLS FOR RELAYS? 0 0 0
- E 316 F1-01 DO YOU CHECK THE ELECTRICAL CONTINUITY OF COILS BY MEASURING RESISTANCE? 0 0 0
- F 317 F1-01 DO YOU INVOLVE ANY VACUUM TUBING WITH MICROPHONES? 27 22 75

- F 318 F1-02 DO YOU INSPECT MICROPHONES? 0 0 0
- F 319 F1-02 DO YOU CLEAN MICROPHONES? 2 0 0
- F 320 F1-01 DO YOU OPERATE (HAVE A JOB IN WHICH YOU USE) MICROPHONES? 26 22 26
- F 321 F1-01 DO YOU TROUBLESHOOT MICROPHONES AS FAR AS CHECKING WIRE CONNECTIONS BUT DO NOT TROUBLESHOOT BOMB YO
- F 322 F1-01 DO YOU TROUBLESHOOT DEMON TO MICROPHONES? 2 4 0

COMPONENTS:

- F 323 F1-01 DO YOU REMOVE OR REPLACE THE COMPLETE MICROPHONE? 0 0 0
- F 324 F1-01 DO YOU REMOVE OR REPLACE MICROPHONE PARTS? 0 0 0
- F 325 F1-01 DO YOU PERFORM TASKS ON CARBON MICROPHONES? 0 0 0
- F 326 F1-01 DO YOU PERFORM TASKS ON CAPACITOR MICROPHONES? 0 0 0
- F 327 F1-01 DO YOU PERFORM TASKS ON CRYSTAL MICROPHONES? 0 0 0
- F 328 F1-01 DO YOU PERFORM TASKS ON DYNAMIC MICROPHONES? 0 0 0
- F 329 F1-01 DO YOU PERFORM TASKS ON VELOCITY RIBBON MICROPHONES? 0 0 0

- F 330 F1-01 DO YOU TROUBLESHOOT YOUR JOB INVOLVING ANY TALKY WALKING WITH SPEAKERS, SUCH AS LISTENING TO AUDIO OUTPUTS, ETC. 33 28 33
- F 331 F2-02 DO YOU INSPECT SPEAKERS? 0 0 0
- F 332 F2-02 DO YOU CLEAN SPEAKERS? 0 0 0
- F 333 F2-01 DO YOU OPERATE (HAVE A JOB IN WHICH SPEAKERS ARE USED)? 0 0 0
- F 334 F2-02 DO YOU TROUBLESHOOT SPEAKERS AS FAR AS CHECKING WIRE CONNECTIONS BUT DO NOT TROUBLESHOOT BOMB YO

- F 335 F2-02 DO YOU TROUBLESHOOT DEMON TO SPEAKER COMPONENTS? 0 0 0
- F 337 F2-02 DO YOU REMOVE OR REPLACE THE COMPLETE SPEAKER? 0 0 0
- F 338 F2-02 DO YOU REMOVE OR REPLACE SPEAKER PARTS? 0 0 0
- F 339 F2-02 AND YOU REQUIRED TO PERFORM ANY TASKS ON SPEAKER CAVES. 0 0 0
- F 340 F2-01 ARE YOU REQUIRED TO PERFORM ANY TASKS ON SPEAKER SPIDERS? 0 0 0
- F 341 F2-01 ARE YOU REQUIRED TO PERFORM ANY TASKS ON SPEAKER FIELD COILS? 0 0 0

MODULE 17 - MICROPHONES AND SPEAKERS

PCI MEMBERS ASSESSMENT FOR OPEN SOURCE GPS
TASK GROUP SUMMARY
PRESENT MEMBERS PERFORMING

LIPSON PAGE - 112

OPERATIONS
388X0 30830 3087C

DT-TASK

DP SPC SPC

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- F 341 F2-12 ARE YOU REQUIRED TO PERFORM ANY TASKS ON SPEAKER VOICE COILS. 0 0 0
- F 342 F2-13 ARE YOU REQUIRED TO PERFORM ANY TASKS ON SPEAKER PERMANENT MAGNETS. 2 4 0
- F 343 F2-14 ARE YOU REQUIRED TO PERFORM ANY TASKS ON SPEAKER ELECTROMAGNETS. 0 0 0
- F 344 F2-15 ARE YOU REQUIRED TO PERFORM ANY TASKS ON SPEAKER SOFT IRON CORES. 0 0 0
- F 345 F3-01 DO YOU USE OSCILLOSCOPES ON YOUR PRESENT JOB? 28 36 17
- F 346 F3-02 DO YOU USE AN OSCILLOSCOPE TO PERFORM OPERATIONAL CHECKS. 23 29 19
- F 347 F3-03 DO YOU USE AN OSCILLOSCOPE TO PERFORM ALIGNMENT OR ADJUSTMENTS. 0 0 0
- F 348 F3-04 DO YOU USE AN OSCILLOSCOPE TO PERFORM TROUBLESHOOT ELECTRONIC CIRCUITS. 0 0 0
- F 349 F3-05 DO YOU USE AN OSCILLOSCOPE TO MEASURE FREQUENCY. 4 4 0
- F 350 F3-06 DO YOU USE AN OSCILLOSCOPE TO MEASURE TIME. 0 0 0
- F 351 F3-07 DO YOU USE AN OSCILLOSCOPE TO OBSERVE LISSAJOUS PATTERNS. 0 0 0
- F 352 F3-08 DO YOU USE AN OSCILLOSCOPE TO OBSERVE SIGNALS WHILE UTILIZING ATTENAUATOR PROBES. 0 0 0
- F 353 F3-09 DO YOU USE AN OSCILLOSCOPE TO MAKE FREQUENCY OR TIME MEASUREMENTS USING THE DELAY TIME MULTIPLIER. 0 0 0
- F 354 F3-10 DO YOU USE AN OSCILLOSCOPE TO MEASURE AC VOLTAGE. 5 6 4
- F 355 F3-11 DO YOU USE AN OSCILLOSCOPE TO MEASURE DC VOLTAGE. 14 17 14
- F 356 F3-12 DO YOU WORK WITH SEMICONDUCTOR DIODES AFTER FIRST ADJUSTING THE GAIN AND DC BAL PRESENT JOB. 0 0 0
- G 357 G1-02 DO YOU INSPECT DIODES. 0 0 0
- G 358 G1-03 DO YOU REMOVE OR REPLACE DIODES. 0 0 0
- G 359 G1-04 DO YOU CHECK DIODES USING AN INSTRUMENT. 0 0 0
- G 360 G1-05 DO YOU USE ENERGY LEVEL DIAGRAMS IN YOUR WORK WITH DIODES. 0 0 0
- G 361 G1-06 DO YOU USE PN JUNCTION DIODE CHARACTERISTIC CURVES, TOGETHER WITH VALUES OF FORWARD AND REVERSE FOR DIODES. 0 0 0
- G 362 G1-07 DO YOU COMPUTE FORWARD OR REVERSE BIAS RESISTANCE FOR DIODES. 0 0 0
- G 363 G1-08 DO YOU USE OR REFER TO THE GENERAL RULE THAT TEMPERATURE CAN AFFECT THE OPERATION OF THE DIODE. 0 0 0
- G 364 G1-09 DO YOU IDENTIFY SEMICONDUCTOR DIODES AS OPPOSED TO OTHER ELECTRONIC COMPONENTS, SUCH AS RESISTORS, 0 0 0
- G 365 G1-10 DO YOU REFER TO OR DO YOU DETERMINE THE GENERAL EFFECTS OF DOPING ON CURRENT FLOW. 0 0 0

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 TASK GROUP SUMMARY
 PERCENT MEMBERS PERFORMING

GPSUM PAGE 111

OPERATIONS
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| | OP-TASK | SPC
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026 | SPC
027 |
|---|---------|-------------|------------|------------|
| 6 366 61-11 DO YOU USE OR REFER TO A MEASUREMENT OF FORWARD BIAS RESISTANCE. | 0 0 0 | 0 0 0 | 0 0 0 | |
| 6 367 61-12 DO YOU USE OR REFER TO DIODE COLOR CODING. | 0 0 0 | 0 0 0 | 0 0 0 | |
| 6 368 61-13 DO YOU USE OR REFER TO CENTRIFUGAL FORCE OF AN ELECTRON IN ORBIT AROUND NUCLEUS. | 0 0 0 | 0 0 0 | 0 0 0 | |
| 6 369 61-14 DO YOU USE OR REFER TO CENTRIPETAL FORCE OF AN ELECTRON IN ORBIT AROUND NUCLEUS. | 0 0 0 | 0 0 0 | 0 0 0 | |
| 6 370 61-15 DO YOU USE OR REFER TO DIODE NUMBERING SYSTEM, SUCH AS IN LJS. | 0 0 0 | 0 0 0 | 0 0 0 | |
| 6 371 61-16 DO YOU USE OR REFER TO KINETIC ENERGY OF AN ELECTRON MOVING IN ORBIT. | 0 0 0 | 0 0 0 | 0 0 0 | |
| 6 372 61-17 DO YOU USE OR REFER TO POTENTIAL ENERGY OF AN ELECTRON MOVING IN ORBIT. | 0 0 0 | 0 0 0 | 0 0 0 | |
| 6 373 61-18 DO YOU USE OR REFER TO A MEASUREMENT OR REVERSE BIAS RESISTANCE. | 0 0 0 | 0 0 0 | 0 0 0 | |
| 6 374 61-19 DO YOU USE OR REFER TO NUMBER OF ELECTRONS IN A PARTICULAR SHELL OR ORBIT. | 0 0 0 | 0 0 0 | 0 0 0 | |
| 6 375 61-20 DO YOU USE OR REFER TO PERMISSIBLE ENERGY LEVELS OF AN ORBITING ELECTRON. | 0 0 0 | 0 0 0 | 0 0 0 | |
| 6 376 61-21 DO YOU USE OR REFER TO FORBIDDEN ENERGY LEVELS OF AN ORBITING ELECTRON. | 0 0 0 | 0 0 0 | 0 0 0 | |
| 6 377 61-22 DO YOU USE OR REFER TO VALENCE ELECTRONS (THOSE IN THE OUTERMOST SHELL). | 0 0 0 | 0 0 0 | 0 0 0 | |
| 6 378 61-23 DO YOU USE OR REFER TO ATOMIC NUMBER (TOTAL NUMBER OF ELECTRONS IN ATOM). | 0 0 0 | 0 0 0 | 0 0 0 | |
| 6 379 61-24 DO YOU USE OR REFER TO SYMBOLS ON THE DIODE WHICH INDICATE THE CATHODE END. | 0 0 0 | 0 0 0 | 0 0 0 | |
| 6 380 61-25 DO YOU NEED TO KNOW WHICH MATERIALS ARE USED IN THE CONSTRUCTION OF DIODES, SUCH AS GERMANIUM OR SEMICONDUCTOR MATERIALS. | 0 0 0 | 0 0 0 | 0 0 0 | |
| 6 381 61-26 IS IT IMPORTANT FOR YOU TO KNOW THAT SEMICONDUCTORS HAVE NEGATIVE TEMPERATURE COEFFICIENTS | 0 0 0 | 0 0 0 | 0 0 0 | |
| 6 382 61-27 DO YOU USE OR REFER TO PN JUNCTION DIODE CHARACTERISTIC CURVES SUCH AS VOLTAGE - CURRENT | 0 0 0 | 0 0 0 | 0 0 0 | |
| 6 383 61-28 DO YOU DETERMINE WHETHER A PN JUNCTION DIODE IS FORWARD BIASED OR REVERSE BIASED WHEN YOU READ OR | 0 0 0 | 0 0 0 | 0 0 0 | |
| 6 384 61-29 DO YOU USE OR REFER TO VALENCE BAND IN SEMICONDUCTOR MATERIALS. | 0 0 0 | 0 0 0 | 0 0 0 | |
| 6 385 61-30 DO YOU USE OR REFER TO FORBIDDEN BAND IN SEMICONDUCTOR MATERIALS. | 0 0 0 | 0 0 0 | 0 0 0 | |
| 6 386 61-31 DO YOU USE OR REFER TO CONDUCTION BAND IN SEMICONDUCTOR MATERIALS. | 0 0 0 | 0 0 0 | 0 0 0 | |

PCT XBERS ANSWER YES FOR OPER DAFSC 6PS
TASK GROUP SUMMARY
PROJECT NUMBER OF FORMING

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| DATA SHEET | | MODULE 30 - TRANSISTORS | |
|------------|---|-------------------------|---|
| 6 387 | 61-2 DO YOU USE OR REFER TO COVALENT BONDING IN SEMICONDUCTOR MATERIALS. | 0 | 0 |
| 6 388 | 61-3 DO YOU USE OR REFER TO ELECTRON - HOLE PAIR CREATED IN SEMICONDUCTORS. | 0 | 0 |
| 6 389 | 61-4 DO YOU USE OR REFER TO ELECTRON FLOW OR HOLE FLOW IN SEMICONDUCTORS. | 0 | 0 |
| 6 390 | 61-5 DO YOU USE OR REFER TO DOPPER IMPURITY IN SEMICONDUCTORS. | 0 | 0 |
| 6 391 | 61-6 DO YOU USE OR REFER TO ACCEPTOR IMPURITY IN SEMICONDUCTORS. | 0 | 0 |
| 6 392 | 61-7 DO YOU USE OR REFER TO P-TYPE SEMICONDUCTOR MATERIAL. | 0 | 0 |
| 6 393 | 61-8 DO YOU USE OR REFER TO N-TYPE SEMICONDUCTOR MATERIAL. | 0 | 0 |
| 6 394 | 61-9 DO YOU USE OR REFER TO MAJORITY CARRIERS IN SEMICONDUCTORS. | 0 | 0 |
| 6 395 | 61-10 DO YOU USE OR REFER TO MINORITY CARRIERS IN SEMICONDUCTORS. | 0 | 0 |
| 6 396 | 61-11 DO YOU USE OR REFER TO JUNCTION RECOMBINATION IN SEMICONDUCTORS. | 0 | 0 |
| 6 397 | 61-12 DO YOU USE OR REFER TO DEPLETION REGION IN SEMICONDUCTORS. | 0 | 0 |
| 6 398 | 61-13 DO YOU USE OR REFER TO RELATIONSHIP BETWEEN BARRIER WIDTH AND DIFFERENCE OF POTENTIAL. | 0 | 0 |
| 6 399 | 61-14 DO YOU USE OR REFER TO THE 10 TO 1 BACK TO FRONT RESISTANCE RATIO FOR DIODES. | 0 | 0 |
| 6 400 | 61-15 DO YOU USE OR REFER TO BARRIER HEIGHT IN SEMICONDUCTORS. | 0 | 0 |
| 6 401 | 61-16 DO YOU USE OR REFER TO DIODE SUBSTITUTION INFORMATION. | 0 | 0 |
| 6 402 | 61-17 DO YOU USE OR REFER TO THE MAXIMUM AVERAGE FORWARD CURRENT DIODE RATING. | 0 | 0 |
| 6 403 | 61-18 DO YOU USE OR REFER TO THE PEAK RECURRENT FORWARD CURRENT DIODE RATING. | 0 | 0 |
| 6 404 | 61-19 DO YOU USE OR REFER TO THE MAXIMUM SURGE CURRENT DIODE RATING. | 0 | 0 |
| 6 405 | 61-20 DO YOU USE OR REFER TO THE PEAK REVERSE (INVERSE) DIODE RATING. | 0 | 0 |
| 6 406 | 61-21 DO YOU USE OR REFER TO YOUR PRESENT JOB. | 0 | 0 |
| 6 407 | 62-02 DO YOU INSPECT TRANSISTORS. | 0 | 0 |
| 6 408 | 62-03 DO YOU REMOVE OR REPLACE TRANSISTORS. | 0 | 0 |
| 6 409 | 62-04 DO YOU CHECK TRANSISTORS USING AN INSTRUMENT. | 0 | 0 |
| 6 410 | 62-05 DO YOU USE OR REFER TO Emitter - Base (EB) FORWARD AND REVERSE RESISTANCE MEASUREMENTS. | 0 | 0 |
| 6 411 | 62-06 DO YOU USE OR REFER TO COLLECTOR - BASE (CB) FORWARD AND REVERSE RESISTANCE MEASUREMENTS. | 0 | 0 |
| 6 412 | 62-07 DO YOU USE OR REFER TO Emitter - Collector (EC) RESISTANCE MEASUREMENTS. | 0 | 0 |

PCT MORE ANSWERS YES FOR OPER_DAFSC 6PS

TASK GROUP SUMMARY
PERCENT MEMBERS PERFORMING

4PSUMS PAGE 115

OPERATIONS

308XC 30830 3087C

DO-TSK

0094 026 027

- 6 413 62-08 DO YOU USE OR REFER TO HOW BIASING AFFECTS THE PHYSICAL BARRIER WIDTH OF THE Emitter - BASE JUNCTION.
 6 414 62-09 DO YOU USE OR REFER TO HOW BIASING AFFECTS THE PHYSICAL BARRIER WIDTH OF THE COLLECTOR - BASE JUNCTION.
 6 415 62-10 DO YOU USE OR REFER TO THE PHYSICAL SIZE OF THE TRANSISTOR STRUCTURE (COLLECTOR, BASE AND Emitter).
 6 416 62-11 DO YOU USE OR REFER TO LEAKAGE CURRENT (ICBO) IN A TRANSISTOR.
 6 417 62-12 DO YOU USE OR REFER TO TRANSISTOR SCHEMATIC SYMBOLS.
 6 418 62-13 DO YOU USE OR REFER TO TRANSISTOR NOTATIONS, SUCH AS Q1, Q2, Q3, ETC.
 6 419 62-14 DO YOU USE OR REFER TO TRANSISTOR SUBSTITUTION INFORMATION.
 6 420 62-15 DO YOU USE OR REFER TO THE GENERAL RULE THAT THE TRANSISTOR BASE CURRENT IS NORMALLY SIGNIFICANTLY LARGER THAN THE Emitter Current.
 6 421 62-16 DO YOU USE THE INFORMATION THAT THE EFFECT OF Emitter BASE VOLTAGE ON BASE CURRENT IS THE SAME AS ON Emitter Emitter Current.
 6 422 62-17 DO YOU USE THE GENERAL RULE THAT LEAKAGE CURRENT (ICBO) IN A TRANSISTOR INCREASES AS TEMPERATURE INCREASES.
 6 423 62-18 DO YOU USE OR REFER TO TRANSISTOR CHARACTERISTIC CURVES.
 6 424 62-19 DO YOU USE OR REFER TO THE BETA TRANSISTOR GAINS.
 6 425 62-20 DO YOU USE OR REFER TO THE ALPHA TRANSISTOR GAINS.
 6 426 62-21 DO YOU USE OR REFER TO THE GAMMA TRANSISTOR GAINS.
 6 427 62-22 DO YOU CALCULATE THE BETA TRANSISTOR GAINS.
 6 428 62-23 DO YOU CALCULATE THE ALPHA TRANSISTOR GAINS.
 6 429 62-24 DO YOU CALCULATE THE GAMMA TRANSISTOR GAINS.
- 6 430 DO YOU WORK WITH TRANSISTOR AMPLIFIERS IN YOUR PRESENT JOB.**
- 6 431 63-02 DO YOU INSPECT TRANSISTOR AMPLIFIERS.
 6 432 63-03 DO YOU ALIGN OR ADJUST TRANSISTOR AMPLIFIERS.
 6 433 63-04 DO YOU TROUBLESHOOT TO THE TRANSISTOR AMPLIFIER CIRCUIT LEVEL.
 6 434 63-05 DO YOU TROUBLESHOOT TO COMPONENT PARTS OF TRANSISTOR AMPLIFIERS.
 6 435 63-06 DO YOU REMOVE OR REPLACE THE COMPLETE TRANSISTOR AMPLIFIERS.
 6 436 63-07 DO YOU REMOVE OR REPLACE TRANSISTOR AMPLIFIER COMPONENT PARTS.
 6 437 63-08 DO YOU USE OR REFER TO (COMMON Emitter) THE CHANGE IN THE COLLECTOR CURRENT WHICH RESULTS FROM A CHANGE IN

MODULE 31 - AMPLIFIER PRINCIPLES

MODULE 39 - SOLID STATE WIDEBAND AMPLIFIERS

PCT_MARS ANSWER YES FOR OPER DAFSC GPS
 TASK GROUP SUMMARY
 PERCENT MEMBERS PERFORMING

QUESTION PAGE 116

OPERATIONS
 303XC 303CC 303CD

DY-15X

SPC SPC
 0004 029 027

- G 438 63-09 DO YOU USE OR REFER TO (COMMON Emitter) TIME CHARGE CALCULATIONS NECESSARY TO MEASURE THE SPECIFIC CHARGE
 G 439 63-10 DO YOU USE OR REFER TO (COMMON Emitter) TIME CHANGE IN COLLECTOR VOLTAGE WHICH RESULTS FROM A CHANGE IN
 G 440 63-11 DO YOU USE OR REFER TO (COMMON Emitter) THE CALCULATIONS NECESSARY TO MEASURE THE SPECIFIC CHARGE
 G 441 63-12 DO YOU USE OR REFER TO (COMMON Emitter) TIME CHANGE IN BASE CURRENT WHICH RESULTS FROM AN INPUT SIGNAL.
 G 442 63-13 DO YOU USE OR REFER TO (COMMON Emitter) THE CALCULATIONS NECESSARY TO MEASURE THE SPECIFIC CHARGE
 G 443 63-14 DO YOU USE THE LOAD-LINE METHOD OF ANALYSIS (THIS IS YOUR CIRCUIT ANALYSIS)
 G 444 63-15 DO YOU USE OR REFER TO THE OPERATING POINT (THE QUIESCENT POINT) FOR A TRANSISTOR.
 G 445 63-16 DO YOU CALCULATE THE SPECIFIC ILLUMINANT FOR A PARTICULAR TRANSISTOR.
 G 446 63-17 DO YOU MEASURE VOLTAGE GAIN (COMMON Emitter).
 G 447 63-18 DO YOU MEASURE CURRENT GAIN (COMMON Emitter).
 G 448 63-19 DO YOU MEASURE POWER GAIN (COMMON Emitter).
 G 449 63-20 DO YOU CALCULATE THE VOLTAGE GAIN FOR A SPECIFIC TRANSISTOR USING A FORMULA. THAT IS, DO YOU MEASURE
 G 450 63-21 DO YOU CALCULATE THE CURRENT GAIN FOR A SPECIFIC TRANSISTOR USING A FORMULA. THAT IS, DO YOU MEASURE
 G 451 63-22 DO YOU CALCULATE THE POWER GAIN FOR A SPECIFIC TRANSISTOR USING A FORMULA. THAT IS, DO YOU MULTIPLY
 G 452 63-23 DO YOU NEED TO KNOW THAT MORE COLLECTOR CURRENT IS GENERATED WITH LESS COLLECTOR VOLTAGE AS
 G 453 63-24 DO YOU COMPUTE THE STATIC OPERATING POINT (Q) OF A TRANSISTOR AT DIFFERENT TEMPERATURES.

PCT MARS ANSWERS TEST FOR OPER QPSK GPS
TASK GROUP SUMMARY
PERCENT MEMBERS PERFORMING

- 6 454 63-24 DO YOU IDENTIFY ON SCHEMATIC DIAGRAMS AND RELATE
TO THE ACTUAL CIRCUITRY THE COMPONENTS ASSOCIATED
WITH THE REVERSE BIAS STABILIZATION FUNCTIONS.
6 455 63-24 DO YOU TROUBLESHOOT TRANSISTOR CIRCUITS TO FIND
THE CAUSE OF AMPLITUDE DISTORTION FOR
TRANSMISSION CIRCUITS.
- 6 456 63-24 DO YOU IDENTIFY ON SCHEMATIC DIAGRAMS AND RELATE
TO THE ACTUAL CIRCUITRY THE COMPONENTS ASSOCIATED
WITH THE FORWARD BIAS STABILIZATION FUNCTIONS.
6 457 63-28 DO YOU IDENTIFY ON SCHEMATIC DIAGRAMS AND RELATE
TO THE ACTUAL CIRCUITRY THE COMPONENTS ASSOCIATED
WITH THE FORWARD BIAS STABILIZATION FUNCTIONS.
- 6 458 63-24 DO YOU IDENTIFY ON SCHEMATIC DIAGRAMS AND RELATE
TO THE ACTUAL CIRCUITRY THE COMPONENTS ASSOCIATED
WITH THE FORWARD BIAS STABILIZATION FUNCTIONS.
6 459 63-24 DO YOU IDENTIFY ON SCHEMATIC DIAGRAMS AND RELATE
TO THE ACTUAL CIRCUITRY THE COMPONENTS ASSOCIATED
WITH THE FORWARD BIAS STABILIZATION FUNCTIONS.
- 6 460 63-24 DO YOU TROUBLESHOOT CIRCUITS WHICH HAVE COMPONENTS
WHICH PERFORM THE Emitter Clamping Function?
6 461 63-24 DO YOU TROUBLESHOOT CIRCUITS WHICH HAVE COMPONENTS
WHICH PERFORM THE SELF BIAS STABILIZATION FUNCTIONS.
6 462 63-24 DO YOU TROUBLESHOOT CIRCUITS WHICH HAVE COMPONENTS
WHICH PERFORM THE FORWARD BIAS STABILIZATION FUNCTIONS.
- 6 463 63-24 DO YOU TROUBLESHOOT CIRCUITS WHICH HAVE COMPONENTS
WHICH PERFORM THE REVERSE BIAS STABILIZATION FUNCTIONS.
6 464 63-24 DO YOU TROUBLESHOOT CIRCUITS WHICH HAVE COMPONENTS
WHICH PERFORM THE FORWARD BIAS STABILIZATION FUNCTIONS.
6 465 63-24 DO YOU TROUBLESHOOT CIRCUITS WHICH HAVE COMPONENTS
WHICH PERFORM THE FORWARD BIAS STABILIZATION FUNCTIONS.
6 466 63-24 DO YOU TROUBLESHOOT CIRCUITS WHICH HAVE COMPONENTS
WHICH PERFORM THE REVERSE BIAS STABILIZATION FUNCTIONS.
6 467 63-24 DO YOU TROUBLESHOOT CIRCUITS WHICH HAVE COMPONENTS
WHICH PERFORM THE FORWARD BIAS STABILIZATION FUNCTIONS.
6 468 63-24 DO YOU TROUBLESHOOT CIRCUITS WHICH HAVE COMPONENTS
WHICH PERFORM THE REVERSE BIAS STABILIZATION FUNCTIONS.
6 469 63-24 DO YOU TROUBLESHOOT CIRCUITS WHICH HAVE COMPONENTS
WHICH PERFORM THE FORWARD BIAS STABILIZATION FUNCTIONS.
6 470 63-24 DO YOU IDENTIFY PHASE DISTORTION FOR TRANSISTOR
CIRCUITS.
6 471 63-24 DO YOU TROUBLESHOOT TRANSISTOR CIRCUITS TO FIND
THE CAUSE OF PHASE DISTORTION.
6 472 63-24 DO YOU IDENTIFY AMPLITUDE DISTORTION FOR
TRANSMISSION CIRCUITS.

P.E.T. ANSWERS - TS FOR OPER-DATSC SPS.
 TASK GROUP SUMMARY
 PERCENT MEMBERS PERFORMING

SPSMA PAGE 119

OPERATIONS
 308/C 308/C 308/C

BY-TASK

- H 501 H2-11 DO YOU WORK WITH BRIDGE RECTIFIERS.
 H 502 H2-12 DO YOU WORK WITH THREE PHASE RECTIFIERS.
 H 503 H2-13 DO YOU USE OR REFER TO INPUT AMPLITUDE.
 H 504 H2-14 DO YOU USE OR REFER TO INPUT FREQUENCY.
 H 505 H2-15 DO YOU USE OR REFER TO PEAK OUTPUT VOLTAGE.
 H 506 H2-16 DO YOU USE OR REFER TO AVERAGE OUTPUT VOLTAGE.
 H 507 H2-17 DO YOU USE OR REFER TO RIPPLE AMPLITUDE.
 H 508 H2-18 DO YOU USE OR REFER TO NIPPLE FREQUENCY.
 H 509 H2-19 DO YOU USE OR REFER TO PEAK REVERSE (INVERSE) VOLTAGE.
 H 510 H2-20 DO YOU USE OR REFER TO SHAPE OF THE OUTPUT WAVEFORM.
 H 511 H2-21 DO YOU USE OR REFER TO EFFECTIVE OUTPUT VOLTAGE.
 H 512 H2-22 DO YOU WORK WITH CIRCUITS WHICH EMPLOY CAPACITIVE FILTERS.
 H 513 H2-23 DO YOU WORK WITH CIRCUITS WHICH EMPLOY INDUCTIVE FILTERS.
 H 514 H2-24 DO YOU WORK WITH CIRCUITS WHICH EMPLOY CAPACITIVE INPUT L-TYPE FILTERS.
 H 515 H2-25 DO YOU WORK WITH CIRCUITS WHICH EMPLOY INDUCTIVE INPUT L-TYPE FILTERS.
 H 516 H2-26 DO YOU WORK WITH CIRCUITS WHICH EMPLOY LC PI-TYPE FILTERS.
 H 517 H2-27 DO YOU WORK WITH CIRCUITS WHICH EMPLOY RC PI-TYPE FILTERS.
 H 518 H2-28 DO YOU WORK WITH CIRCUITS WHICH EMPLOY DON'T REMEMBER WHICH TYPE OF FILTER.
 H 519 H2-29 DO YOU HAVE THE OPTION OF REPLACING ONE TYPE OF FILTER WITH A DIFFERENT TYPE FILTER.
 H 520 R3-01 DO YOU WORK WITH OSCILLATORS ON YOUR PRESENT JOB.
 H 521 H3-02 DO YOU INSPECT OSCILLATORS.
 H 522 H3-03 DO YOU ALIGN OR ADJUST OSCILLATORS.
 H 523 H3-04 DO YOU REMOVE OR REPLACE THE COMPLETE OSCILLATORS CIRCUIT.
 H 524 H3-05 DO YOU REMOVE OR REPLACE COMPONENT PARTS OF OSCILLATORS.
 H 525 H3-06 DO YOU TROUBLESHOOT TO THE OSCILLATORS CIRCUIT LEVEL.
 H 526 H3-07 DO YOU TROUBLESHOOT TO OSCILLATORS COMPONENTS.
 H 527 H3-08 DO YOU USE OR REFER TO FEEDBACK.
 H 528 H3-09 DO YOU USE OR REFER TO FREQUENCY DETERMINING DEVICES (FDDI).
 H 529 H3-10 DO YOU USE OR REFER TO AMPLITUDE STABILITY.
 H 530 H3-11 DO YOU USE OR REFER TO FREQUENCY STABILITY.
 H 531 H3-12 DO YOU USE OR REFER TO DAMPING.
 H 532 H3-13 DO YOU USE OR REFER TO REGENERATIVE FEEDBACK.

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MODULE 42 - PRINCIPLES OF OSCILLATION
 MODULE 43 - SOLID STATE LC OSCILLATOR
 MODULE 44 - SOLID STATE AC OSCILLATORS
 MODULE 46 - SOLID STATE PULSES ETC
 BLOCKING OSCILLATORS

PCI MEMS ANSWERS YES FOR OPEN DAFSC 6PS

TASK GROUP SUMMARY
PERCENT MEMBERS PERFORMING

4 PAGES PAGE - 120

OPERATIONS
308C, 30830, 30-70

WT-TSK

WP SPC SPC
000 026 027

H 533 H3-19 DO YOU USE OR REFER TO PIEZOELECTRIC EFFECT.

H 534 H3-15 DO YOU USE OR REFER TO CRITICAL DAMPING.

H 535 H3-16 DO YOU USE OR REFER TO UNDER DAMPING.

H 536 H3-17 DO TCU USE OR REFER TO OVER DAMPING.

H 537 H3-18 DO OSCILLATORS YOU WORK WITH USE LC TANK CIRCUITS

AS FDD.

H 538 H3-19 DO OSCILLATORS YOU WORK WITH USE RC NETWORKS AS

FDD.

H 539 H3-20 DO OSCILLATORS YOU WORK WITH USE CRYSTALS AS FDD.

H 540 H3-21 DO OSCILLATORS YOU WORK WITH USE DON'T REMEMBER

WHICH TYPE AS FDD.

H 541 H3-22 DO YOU WORK WITH SERIES HARTLEY SINUSOIDAL

OSCILLATORS.

H 542 H3-23 DO YOU WORK WITH SHUNT HARTLEY SINUSOIDAL

OSCILLATORS.

H 543 H3-24 DO YOU WORK WITH COLPITTS SINUSOIDAL OSCILLATORS.

H 544 H3-25 DO YOU WORK WITH CLAPP SINUSOIDAL OSCILLATORS.

H 545 H3-26 DO YOU WORK WITH BUTLER SINUSOIDAL OSCILLATORS.

H 546 H3-27 DO YOU WORK WITH DON'T REMEMBER WHICH TYPE OF

SINUSOIDAL OSCILLATORS.

547 11-07 DO YOU WORK WITH MULTIVIBRATORS ON YOUR PRESENT

JOB.

I 548 11-02 DO YOU INSPECT WAVE SHAPING OR GENERATING CIRCUITS.

I 549 11-03 DO YOU ALIGN OR ADJUST WAVE SHAPING OR GENERATING

CIRCUITS.

I 550 11-04 DO YOU CALIBRATE WAVE SHAPING OR GENERATING

CIRCUITS.

I 551 11-05 DO YOU TROUBLESHOOT TO THE WAVE SHAPING OR

GENERATING CIRCUITS.

I 552 11-06 DO YOU TROUBLESHOOT TO COMPONENTS WITHIN THE

WAVE SHAPING OR GENERATING CIRCUITS.

I 553 11-07 DO YOU REMOVE OR REPLACE COMPLETE WAVE SHAPING OR

GENERATING CIRCUITS.

I 554 11-08 DO YOU REMOVE OR REPLACE COMPONENTS OF WAVE

SHAPING OR GENERATING CIRCUITS.

I 555 11-09 DO OSCILLATORS YOU WORK WITH USE LC TANK CIRCUITS

AS FDD.

I 556 11-10 DO OSCILLATORS YOU WORK WITH USE RC NETWORKS AS

FDD.

I 557 11-11 DO OSCILLATORS YOU WORK WITH USE CRYSTALS AS FDD.

I 558 11-12 DO OSCILLATORS YOU WORK WITH USE DON'T REMEMBER

WHICH TYPE AS FDD.

I 559 11-13 DO YOU WORK WITH ASTABLE MULTIVIBRATORS.

I 560 11-14 DO YOU WORK WITH MONOSTABLE MULTIVIBRATORS.

I 561 11-15 DO YOU WORK WITH BI-STABLE MULTIVIBRATORS.

I 562 11-16 DO YOU WORK WITH DON'T REMEMBER WHICH TYPE OF

MULTIVIBRATORS.

MUMULT 4 / - SOLID STATE MULTIVIBRATORS

PCT MEMBERS ANSWERED YES FOR OPER. DAFSC SPS

TASK GROUP SUMMARY
PERCENT MEMBERS PERFORMING

SPS/MSN PAGE 121

OPERATIONS
303YC 30230 30870

DY-TSK.

- I 563 12-01 DO YOU WORK WITH LIMITERS OR CLAMPERS ON YOUR PRESENT JOB.
 I 564 12-02 DO YOU WORK WITH SERIES DIODE LIMITERS.
 I 565 12-03 DO YOU WORK WITH SHUNT DIODE LIMITERS.
 I 566 12-04 DO YOU WORK WITH ZENER DIODE LIMITERS.
 I 567 12-05 DO YOU WORK WITH TRANSISTOR LIMITERS.
 I 568 12-06 DO YOU WORK WITH DODGE CLAMPERS.
 I 569 12-07 DO YOU WORK WITH DODGE CLAMPERS.
 I 570 12-08 DO YOU WORK WITH DIODE CLAMPERS.
 I 571 12-09 DO YOU WORK WITH DIODE CLAMPERS WITH BIAS.
 I 572 12-10 DO YOU WORK WITH DODGE CLAMPERS.
 I 573 13-01 FOR PURPOSES OF THIS QUESTION DO NOT CONSIDER HIGH FREQUENCY DEVICES, SUCH AS KLYSTRONs, TRAVELING WAVE TUBES OR CHECK ELECTRON TUBES TO SEE IF THEY ARE GOOD OR NOT.
 I 574 13-02 DO YOU CHECK ELECTRON TUBES TO SEE IF THEY ARE GOOD OR NOT.
 I 575 13-03 DO YOU CHECK ELECTRON TUBES TO SEE IF THEY ARE GOOD OR NOT USING TUBE TESTERS.
 I 576 13-04 DO YOU CHECK ELECTRON TUBES TO SEE IF THEY ARE GOOD OR NOT USING MULTIMETERS.
 I 577 13-05 DO YOU CHECK ELECTRON TUBES TO SEE IF THEY ARE GOOD OR NOT USING SCOPES.
 I 578 13-06 DO YOU CHECK ELECTRON TUBES TO SEE IF THEY ARE GOOD OR NOT USING SUBSTITUTION.
 I 579 13-07 DO YOU USE OR REFER TO CUTOFF.
 I 580 13-08 DO YOU USE OR REFER TO PEAK INVERSE VOLTAGE RATING.
 I 581 13-09 DO YOU USE OR REFER TO PEAK CURRENT RATING.
 I 582 13-10 DO YOU USE OR REFER TO TRANSIT TIME.
 I 583 13-11 DO YOU USE OR REFER TO PLATE DISSIPATION RATING.
 I 584 13-12 DO YOU USE OR REFER TO SATURATION.
 I 585 13-13 DO YOU USE OR REFER TO DC PLATE RESISTANCE.
 I 586 13-14 DO YOU COMPUTE THE ACTUAL VALUE OF THE DC PLATE RESISTANCE FOR ELECTRON TUBES.
 I 587 13-15 DO YOU USE OR REFER TO PLATE VOLTAGE.
 I 588 13-16 DO YOU USE OR REFER TO PLATE CURRENT.
 I 589 13-17 DO YOU USE OR REFER TO GRID VOLTAGE.
 I 590 13-18 DO YOU USE OR REFER TO GRID CURRENT.
 I 591 13-19 DO YOU USE OR REFER TO CATHODE VOLTAGE.
 I 592 13-20 DO YOU USE OR REFER TO CATHODE CURRENT.
 I 593 13-21 THE AMPLIFICATION FACTOR FOR TRIODES IS DEFINED AS THE RATIO OF CHANGE IN PLATE VOLTAGE TO A CHANGE IN AMPLIFICATION FACTOR.
 I 594 13-22 DO YOU CALCULATE THE ACTUAL VALUE OF THE TRIODE

UP SPC
GOOD 026
027

MODULE 50 - SOLID STATE LIMITERS AND CLAMPERS

UP SPC
GOOD 026
027

MODULE 56 - ELECTRON TUBE CHARACTERISTICS AND DIODES

UP SPC
GOOD 026
027

MODULE 57 - TRIODES

UP SPC
GOOD 026
027

MODULE 58 - MULTIGRID ELECTRON TUBES

PC1 MODELS - ANSWERS TO QUESTIONS ON DATA SHEET 225
PARTS GROUPS UNKNOWN PREVIOUSLY
PERCENT UNKNOWN PREVIOUSLY

SECTION 296 - 222
SECTION 295
SECTION 294
SECTION 293
SECTION 292

- 1 595 13-23 00 YOU USE OR NEED TO WRITE DOWN RESISTANCE FACTORS.
1 596 13-24 00 YOU USE OR NEED TO WRITE DOWN RESISTANCE FACTORS.
1 597 13-25 00 YOU CALCULATE THE ACTUAL VALUE OF RESISTANCE.
1 598 13-26 00 YOU USE OR NEED TO WRITE DOWN RESISTANCE.
1 599 13-27 00 YOU CALCULATE THE ACTUAL VALUE OF RESISTANCE.
1 600 13-28 00 YOU USE OR NEED TO WRITE DOWN RESISTANCE.
1 601 13-29 00 YOU USE OR NEED TO WRITE DOWN RESISTANCE.
1 602 13-30 00 YOU USE CHARACTERISTICS CURVES.
1 603 13-31 00 YOU USE CHARACTERISTICS CURVES TO SELECT PLATE
1 604 13-32 00 YOU USE CHARACTERISTICS CURVES TO SELECT PLATE
1 605 13-33 00 YOU USE CHARACTERISTICS CURVES TO SELECT PLATE
1 606 13-34 00 YOU USE OR NEED TO SELECT PLATE
1 607 13-35 00 YOU USE OR REFER TO ELECTRON TUBE AMPLIFIER
1 608 13-36 00 YOU USE TEST TUBE CHECKERS TO DETERMINE GAIN.
1 609 13-37 00 YOU USE MULTIMETERS TO DETERMINE ELECTRON TUBE
1 610 13-38 00 YOU USE SCOPES TO DETERMINE ELECTRON TUBE
1 611 13-39 00 YOU USE CHARACTERISTIC CURVES TO DETERMINE
1 612 13-40 00 YOU CALCULATE AND ELECTRODE CAPACITANCES.
1 613 13-41 00 YOU USE OR NEED TO WRITE DOWN RESISTANCE SYSTEM.
1 614 13-42 00 YOU USE OR NEED TO WRITE DOWN RESISTANCE.
1 615 13-43 00 YOU USE OR NEED TO WRITE DOWN RESISTANCE AND
1 616 13-44 00 YOU USE OR NEED TO WRITE DOWN RESISTANCE.
1 617 13-45 00 YOU USE OR NEED TO WRITE DOWN RESISTANCE.

PCT ANSWERS ANSWER YES FOR OPER DAFSC 6PS

TASK GROUP SUMMARY
PERCENT MEMBERS PERFORMING

SC3303 ELEC 3337C
SPECS

0P SPC SPC
0004 026 027
D/T-SK

- J 619 J1-03 DO YOU TROUBLESHOOT OR REPAIR PARAPHASE AMPLIFIERS.
- J 620 J1-04 DO YOU TROUBLESHOOT OR REPAIR PUSH-PULL AMPLIFIERS.
- J 621 J1-05 DO YOU TROUBLESHOOT OR REPAIR COMPOUND-CONNECTED AMPLIFIERS.
- J 622 J1-06 DO YOU TROUBLESHOOT OR REPAIR CASCADE CONNECTED AMPLIFIERS.
- J 623 J1-07 DO YOU TROUBLESHOOT OR REPAIR DON'T KNOW WHICH TYPE OF ELECTRON TUBE AMPLIFIER.
- J 624 J2-01 DO YOU WORK WITH GAS TUBES THAT CATHODE IS COLD.
- CATHODE.
- J 625 J2-02 DO YOU WORK WITH CATHODE RAY TUBES.
- J 626 J2-03 DO YOU USE OR REFER TO THE CHARACTERISTICS OF BEAM FORMER TUBES.
- J 627 J2-04 DO YOU TROUBLESHOOT OR REPAIR CIRCUITS IN WHICH BEAM POWER TUBES ARE USED.
- J 628 J2-05 DO YOU USE OR REFER TO THE CHARACTERISTICS OF THERATRONS.
- J 629 J2-06 DO YOU TROUBLESHOOT OR REPAIR CIRCUITS IN WHICH THERATRONS ARE USED.
- J 630 J2-07 DO YOU USE OR REFER TO THE PRINCIPLES OF OPERATION OF THE ELECTION GUN OF THE CATHODE RAY TUBE.
- J 631 J2-08 DO YOU USE OR REFER TO THE PRINCIPLES OF OPERATION OF THE ELECTROMAGNETIC DEFLECTION SYSTEM OF THE
- J 632 J2-09 DO YOU USE OR REFER TO THE PRINCIPLES OF OPERATION OF THE ELECTROSTATIC DEFLECTION SYSTEM OF THE
- J 633 J2-10 DO YOU USE OR REFER TO PHOSPHOR SCREENS.
- J 634 J2-11 DO YOU USE OR REFER TO AQUADAG COATINGS.
- J 635 J2-12 DO YOU USE OR REFER TO ELECTRON OPTICS.
- J 636 J2-13 DO YOU USE OR REFER TO PERSISTENCE.
- J 637 J2-14 DO YOU USE OR REFER TO DECAY TIMES.
- J 638 J2-15 DO YOU USE OR REFER TO FLUORESCENCES.
- J 639 J2-16 DO YOU USE OR REFER TO PHOSPHORESCENCES.

J 640 J3-01 DO YOU WORK ON TRANSMISSION RECEIVING SYSTEMS IN YOUR PRESENT JOB.

- J 641 J3-02 DO YOU PERFORM ANY TASKS ON FREQUENCY CONVERTERS.
 - J 642 J3-03 DO YOU PERFORM ANY TASKS ON FREQUENCY MIXERS.
 - J 643 J3-04 DO YOU USE OR REFER TO THE HETERODYNING OF SIGNALS IN YOUR WORK WITH TRANSMIT OR RECEIVE SYSTEMS.
 - J 644 J3-05 DO YOU PERFORM ANY TASKS ON REACTANCE MODULATORS.
 - J 645 J3-06 DO YOU PERFORM ANY TASKS ON MODULATED OSCILLATORS.
- IF NOT DO YOU WORK ON THE FREQUENCY OR RECEIVING SYSTEMS IN YOUR PRESENT JOB.

MODULE 60 - ELECTRON TUBE AUDIO AMPLIFIERS

MODULE 61 - ELECTRON TUBE RF AMPLIFIERS, CATHODE FOLLOWERS, DC AMPLIFIERS AND TRIODE LIMITERS.

MODULE 59 - SPECIAL PURPOSE ELECTRON TUBES

MODULE 63 - HETERODYNING
MODULE 64 - MODULATION
MODULE 65 - DEMODULATION

PCT MUSIS ANSWER YES FOR OPEN DAPSC GPS
 TASK GROUP SUMMARY
 PERCENT MEMBERS PERFORMING

GPSUMB PAGE 124

OPERATIONS
 3081C 3323C 3337C

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- K 647 K1-02 DO YOU INSPECT AM SYSTEMS.
 K 648 K1-03 DO YOU CLEAN AM SYSTEMS.
 K 649 K1-04 DO YOU ALIGN OR ADJUST AM SYSTEMS.
 K 650 K1-05 DO YOU TROUBLESHOOT TO AM SYSTEMS.
 K 651 K1-06 DO YOU REMOVE OR REPLACE AM SYSTEMS.
 K 652 K1-07 DO YOU REMOVE OR REPLACE AM COMPONENTS.
 K 653 K1-08 DO YOU REMOVE OR REPLACE AM OSCILLATORS.
 K 654 K1-09 DO YOU PERFORM ANY TASKS ON RF AMPLIFIERS.
 K 655 K1-10 DO YOU PERFORM ANY TASKS ON AMPLIFIERS.
 K 656 K1-11 DO YOU PERFORM ANY TASKS ON AUDIO AMPLIFIERS.
 K 657 K1-12 DO YOU PERFORM ANY TASKS ON POWER AMPLIFIERS.
 K 658 K1-13 DO YOU PERFORM ANY TASKS ON LOCAL OSCILLATORS.
 K 659 K1-14 DO YOU PERFORM ANY TASKS ON RF AMPLIFIERS.
 K 660 K1-15 DO YOU PERFORM ANY TASKS ON DETECTORS.
 K 661 K1-16 DO YOU PERFORM ANY TASKS ON DON'T REMEMBER WHICH STAGE.
 K 662 K1-17 DO YOU USE OR REFER TO AMPLITUDE STABILIZATION IN TRANSMITTERS.
 K 663 K1-18 DO YOU USE OR REFER TO FREQUENCY STABILIZATION IN TRANSMITTERS.
 K 664 K1-19 DO YOU USE OR REFER TO SENSITIVITY OF RECEIVERS.
 K 665 K1-20 DO YOU USE OR REFER TO SELECTIVITY OF RECEIVERS.
 K 666 K1-21 DO YOU USE OR REFER TO 2ND HARMONIC DISTORTION.
 K 667 K1-22 DO YOU USE OR REFER TO BANDPASS DISTORTION.
 K 668 K1-23 DO YOU USE OR REFER TO SQUARE LAW DISTORTION.
 K 669 K1-24 DO YOU USE OR REFER TO CO-CHANNEL INTERFERENCE.
 K 670 K1-25 DO YOU USE OR REFER TO IMAGE FREQUENCIES IN RECEIVERS.
 K 671 K1-26 DO YOU USE OR REFER TO SIGNAL TO IMAGE RATIO IN IMAGE REJECTION RATIOS.
 K 672 K1-27 DO YOU TRACE SIGNALS OR CURRENT PATHS THROUGH AM TRANSMITTER SCHEMATIC DIAGRAMS.
 K 673 K1-28 DO YOU TRACE SIGNALS OF CURRENT PATHS THROUGH AM RECEIVER SCHEMATIC DIAGRAMS.
 K 674 K2-01 DO YOU WORK WITH FM TRANSMIT OR RECEIVE SYSTEMS
 ON YOUR PRESENT JOB.

MODULE 68 - AM SYSTEMS

MODULE 69 - FM SYSTEMS

- K 675 K2-02 DO YOU INSPECT FM SYSTEMS.
 K 676 K2-03 DO YOU CLEAN FM SYSTEMS.
 K 677 K2-04 DO YOU ALIGN FM SYSTEMS.
 K 678 K2-05 DO YOU TROUBLESHOOT TO FM SYSTEMS.
 K 679 K2-06 DO YOU TROUBLESHOOT TO FM COMPONENTS.
 K 680 K2-07 DO YOU REMOVE OR REPLACE FM SYSTEMS.
 K 681 K2-08 DO YOU REMOVE OR REPLACE FM COMPONENTS.
 K 682 K2-09 DO YOU PERFORM ANY TASKS ON AUDIO AMPLIFIERS.
 K 683 K2-10 DO YOU PERFORM ANY TASKS ON FREQUENCY MULTIPLIERS.
 K 684 K2-11 DO YOU PERFORM ANY TASKS ON DRIVERS (INTERMEDEIATE AMPLIFIERS).

PCC: MRS-ANSWER-YE'S PAPER 043255

TASK GROUP SUMMARY

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*485 K2-12 DO YOU PERFORM ANY TASKS ON POWER AMPLIFIERS.
*486 K2-13 DO YOU PERFORM ANY TASKS ON HF AMPLIFIERS.
*487 K2-19 DO YOU PERFORM ANY TASKS ON FREQUENCY CONVERTERS.
*488 K2-5 DO YOU PERFORM ANY TASKS ON IF AMPLIFIERS.

K-2-16 DO YOU PERFORM ANY TASKS ON LIMITERS
K-2-17 DO YOU PERFORM ANY TASKS ON FREQUENCY
DISCRIMINATORS.
K-2-18 DO YOU TRACE SIGNALS OR CURRENT PATHS THROUGH

101. NUMBER OF COUNTRIES TO WHICH COMMODITY EXPORTS ARE DIRECTED
102. NUMBER OF COUNTRIES TO WHICH COMMODITY EXPORTS ARE DIRECTED

CONVERT BINARY NUMBERS TO DECIMAL NUMBER
CONVERT BINARY NUMBERS TO OCTAL NUMBER
YOU ADD BINARY NUMBERS TO GET A SUM.

DIRE **SUMMARY** **USING** **THE** **NUMBER** **OF** **DO** **YOU** **USE** **THE** **METHOD**?

- L 703 LI-01 ON YOUR PRESENT JOB OR YOU PERFORM ANY TASKS RELATING TO LOGIC FUNCTIONS.
- L 704 LI-02 DO YOU CONSTRUCT TRUTH TABLES FOR AND LOGIC SYMBOLS OR LOGIC FUNCTIONS.

L 705 L-01-00 YOU CONSTRUCT TRUTH TABLES FOR OR LOGIC
OR GATES.
L 706 L-04-00 YOU CONSTRUCT TRUTH TABLES FOR AND OR OR
SYMBOLS WITH STATE INDICATORS.

L705 L706 DO YOU CONSTRUCT TRUTH TABLES FOR EXCLUSIVE OR SYMBOLS ON GATES.
L708 L709 DO YOU USE OR REFER TO TRUTH TABLES FOR AND SYMBOLS OR GATES.

L 704 L-07 DO YOU USE OR REFER TO TRUTH TABLES FOR OR LOGIC SYMBOLS OR GATES.
L 710 L1-08 DO YOU USE OR REFER TO TRUTH TABLES FOR AND OR LOGIC SYMBOLS WITH STATE INDICATORS.

L1-L4 00 000 000 000 REFER TO TRUTH TABLES FOR EXCLUSIVENESS OF LOGIC SYMBOLS.

L11-12 DO YOU USE OR MEAN TO LOGIC SYMBOLS FOR NAND NOR GATES.

APRIL PAGE 125

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| 64 | MODULE 51 - NUMBERING SYSTEM AND
MATHEMATICAL COMPUTATIONS |
| 72 | |
| 28 | |
| 42 | |
| 72 | |

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MODULE 52 - LOGIC FUNCTIONS AND BOOLEAN EQUATIONS

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PCT MEMBERS ANSWER YES FOR OPEN DATA CDS
 TASK GROUP SUMMARY
 PERCENT MEMBERS PERFORMING

OPEN DATA CDS

100%
 100%
 100%

DATA-TEK

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- L 715 L1-13 DO YOU USE OR REFER TO LOGIC SYMBOLS FOR EXCLUSIVE OR GATES.

L 716 L1-17 OUT ON YOUR PRESENT JOB DO YOU PERFORM ANY TASKS RELATING TO BOOLEAN ENVIRONMENTS, LOGIC DIAGRAMS OR LOGIC

L 717 L2-02 DO YOU DRAW LOGIC SYMBOLS FOR DIRECT COUPLED TRANSISTOR LOGIC (DCTL) CIRCUITS.

L 718 L2-03 DO YOU CONSTRUCT TRUTH TABLES FOR CURRENT MODE LOGIC (CML) CIRCUITS.

L 719 L2-04 DO YOU DRAW LOGIC DIAGRAMS FROM GIVEN BOOLEAN EQUATIONS.

L 720 L2-05 DO YOU MEASURE INPUTS OR OUTPUTS OF LOGIC GATES.

L 721 L2-06 DO YOU DEVELOP OR ANALYZE BOOLEAN EQUATIONS IN THE PROCESS OF TROUBLESHOOTING DIGITAL CIRCUITS.

L 722 L2-07 DO YOU ANALYZE LOGIC CIRCUITS BY USING KUHLAN ALGEBRA.

L 723 L2-08 DO YOU USE OR REFER TO LOGIC SYMBOLS FOR DIRECT COUPLED TRANSISTOR LOGIC (DCTL) CIRCUIT GATES.

L 724 L2-09 DO YOU USE OR REFER TO TRUTH TABLES FOR CURRENT MODE LOGIC (CML) CIRCUITS.

L 725 L2-10 DO YOU USE OR REFER TO LOGIC DIAGRAMS CONSISTING OF MORE THAN ONE GATE.

L 726 L2-11 DO YOU COMPUTE SUM AND CARRY EXPRESSIONS FOR SERIAL HALF OR FULL ADDER LOGIC DIAGRAMS.

L 727 L2-12 DO YOU TRACE DATA FLOW THROUGH PARALLEL FULL ADDER LOGIC DIAGRAMS.

L 728 L2-13 DO YOU WORK WITH ASTABLE (FREE RUNNING) MULTIVIBRATORS.

L 729 L2-14 DO YOU WORK WITH BISTABLE (FLIP-FLOP) MULTIVIBRATORS.

L 730 L2-15 DO YOU WORK WITH MONOSTABLE (ONE-SHOT) MULTIVIBRATORS.

L 731 L2-16 DO YOU USE OR REFER TO FLIP-FLOP MULTIVIBRATOR SYMBOLS.

L 732 L2-17 DO YOU USE OR REFER TO SINGLE-SHOT MULTIVIBRATOR SYMBOLS.

L 733 L2-18 DO YOU USE OR REFER TO FLIP-FLOP CIRCUIT DIAGRAMS.

L 734 L2-19 DO YOU USE OR REFER TO FLIP-FLOP TRUTH TABLES.

L 735 L2-20 DO YOU USE OR REFER TO COMPLEMENTED FLIP-FLOP LOGIC SYMBOLS.

L 736 L2-21 DO YOU USE OR REFER TO COMPLEMENTING FLIP-FLOP LOGIC SYMBOLS.

L 737 L2-22 DO YOU MEASURE OUTPUT WAVE SHAPES OF LOGIC CIRCUITS.

L 738 L2-23 DO YOU TRACE DATA FLOW THROUGH COMPLEMENTED FLIP-FLOP SCHEMATIC DIAGRAMS.

L 739 L2-24 DO YOU TRACE DATA FLOW THROUGH COMPLEMENTING FLIP-FLOP SCHEMATIC DIAGRAMS.

MODULE 53 - LOGIC CIRCUITS AND DIAGRAMS

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 TASK GROUP SUMMARY
 PERCENT MEMBERS PERFORMING

EXPLANATION PAGE - 127

OPERATIONS
 ECAC 3630 30870

DO-TSK CP SPC SPC
 000 029 027

L 740 L3-25 DO YOU CONSTRUCT TRUTH TABLES FOR J-K FLIP-FLOP
 LOGIC SYMBOLS.

L 741 L3-26 DO YOU WORK WITH DIGITAL COUNTERS IN YOUR PRESENT
 CIRCUIT.

L 742 L3-02 DO YOU USE OR REFER TO THE TERM UP-COUNTER.
 L 743 L3-03 DO YOU USE OR REFER TO THE TERM DOWN-COUNTER.

L 744 L3-04 DO YOU USE OR REFER TO THE TERM SERIAL COUNTER.

L 745 L3-05 DO YOU USE OR REFER TO THE TERM PARALLEL COUNTER.

L 746 L3-06 DO YOU USE OR REFER TO THE TERM RING COUNTER.

L 747 L3-07 DO YOU USE OR REFER TO THE TERM DECADE COUNTER.

L 748 L3-08 DO YOU USE OR REFER TO THE TERM COUNT DETECT

MODULE 54 - COUNTER, REGISTERS, AND
 STORAGE DEVICES

L 749 L3-09 DO YOU USE OR REFER TO THE TERM DOWN CLOCK.

L 750 L3-10 DO YOU USE OR REFER TO THE TERM UP CLOCK.

L 751 L3-11 DO YOU TRACE THE DATA FLOW THROUGH LOGIC DIAGRAMS
 OF UP-COUNTER HAVING COMPLEMENTED FLIP-FLOPS.

L 752 L3-12 DO YOU TRACE THE DATA FLOW THROUGH LOGIC DIAGRAMS
 OF SERIAL UP- OR DOWN-COUNTER HAVING COMPLEMENTING

L 753 L3-13 DO YOU TRACE THE DATA FLOW THROUGH LOGIC DIAGRAMS
 OF DECADE COUNTER.

L 754 L3-14 DO YOU TRACE THE DATA FLOW THROUGH LOGIC DIAGRAMS
 OF RING COUNTER.

L 755 L3-15 DO YOU TRACE THE DATA FLOW THROUGH LOGIC DIAGRAMS
 OF SERIAL UP-COUNTER FEEDING A PARALLEL STORE

L 756 L3-16 DO YOU TRACE THE DATA FLOW THROUGH LOGIC DIAGRAMS
 OF SHIFT REGISTER.

L 757 L3-17 DO YOU TRACE THE DATA FLOW THROUGH LOGIC DIAGRAMS
 OF OTHER TYPE OF COUNTER.

L 758 L3-18 DO YOU COMPUTE THE BINARY COUNT AFTER A SPECIFIC
 INPUT PULSE FOR UP-COUNTER HAVING COMPLEMENTED FLIP-

L 759 L3-19 DO YOU COMPUTE THE BINARY COUNT AFTER A SPECIFIC
 INPUT PULSE FOR SERIAL UP- OR DOWN-COUNTER HAVING

L 760 L3-20 DO YOU COMPUTE THE BINARY COUNT AFTER A SPECIFIC
 INPUT PULSE FOR SERIAL UP-COUNTER FEEDING A PARALLEL

L 761 L3-21 DO YOU COMPUTE THE BINARY COUNT AFTER A SPECIFIC
 INPUT PULSE FOR OTHER TYPE OF COUNTER.

L 762 L3-22 DO YOU CONSTRUCT TRUTH TABLES FROM LOGIC DIAGRAMS
 OF DECADE COUNTERS.

L 763 L3-23 DO YOU DETERMINE THE STATE OF EACH FLIP-FLOP IN A
 RING COUNTER FOR SPECIFIC INPUT PULSES.

L 764 L3-24 DO YOU DETERMINE THE APPROPRIATE AND GATE
 NECESSARY IN A COUNT DETECT CIRCUIT TO INDICATE A

PCT HOURS ANSWERING YES FOR OPEN DAPSC GPS
 TASK GROUP SUMMARY
 PERCENT MEMBERS PERFORMING

GPSUMS PAGE 129

OPERATIONS
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BY-TASK

UP SPC
 UPPD4 SPC
 UPPD5 SPC

- H 745 M1-01 DO YOU WORK WITH SAWTOOTH WAVE GENERATORS.
 H 746 M1-02 DO YOU WORK WITH TRAPEZOIDAL WAVE GENERATORS.
 H 747 M1-03 DO YOU WORK WITH PULSED OSCILLATORS WITH
 REGENERATIVE FEEDBACK.
 H 748 M1-04 DO YOU WORK WITH PULSED OSCILLATORS WITHOUT
 REGENERATIVE FEEDBACK.
 H 749 M1-05 DO YOU WORK WITH ALCKING OSCILLATORS.
 H 750 M1-06 DO YOU USE OR REFER TO RISE TIME.
 H 751 M1-07 DO YOU USE OR REFER TO FALL OR FLYBACK TIME.
 H 752 M1-08 DO YOU USE OR REFER TO SLEEP TIME.
 H 753 M1-09 DO YOU USE OR REFER TO ELECTRICAL LENGTH OF
 SAWTOOTH WAVEFORMS.
 H 754 M1-10 DO YOU USE OR REFER TO PHYSICAL LENGTH OF SAWTOOTH
 WAVEFORMS.
 H 755 M1-11 DO YOU USE OR REFER TO LINEAR SLOPE OF SAWTOOTH
 WAVEFORMS.
 H 756 M1-12 DO YOU USE OR REFER TO GATE LENGTH OF SAWTOOTH
 WAVEFORMS.
 H 757 K1-01 DO YOU USE SIGNAL GENERATORS ON YOUR PRESENT JOB.
 H 758 K2-02 DO YOU PERFORM OPERATIONAL OR PERFORMANCE CHECKS
 WHILE USING SIGNAL GENERATORS.
 H 759 K2-03 DO YOU PERFORM PERIODIC MAINTENANCE SUCH AS
 ADJUSTING, ALIGNING, OR CALIBRATING WHILE USING SIGNAL
 GENERATORS.
 H 760 K2-04 DO YOU PERFORM TROUBLESHOOTING TO AN ASSEMBLY OR
 SUB-ASSEMBLY WHILE USING SIGNAL GENERATORS.
 H 761 K2-05 DO YOU PERFORM TROUBLESHOOTING TO THE SMALLEST
 REPLACEABLE COMPONENT WHILE USING SIGNAL GENERATORS.
 H 762 K2-06 DO YOU USE AUDIO SINE-WAVE GENERATORS.
 H 763 K2-07 DO YOU USE AUDIO NON-SINUSOIDAL WAVE GENERATORS
 SUCH AS SQUARE WAVE, TRIANGLE, PULSE OR SPIKE.
 H 764 K2-08 DO YOU USE RF GENERATORS LESS THAN 1,000 MHZ.
 H 765 K2-09 DO YOU USE RF GENERATORS GREATER THAN 1,000 MHZ.
 H 766 K2-10 DO YOU USE OTHER SPECIAL PURPOSE OR MULTI-FUNCTION
 GENERATORS.
 H 767 M2-01 DOES YOUR JOB INVOLVE ANY TASKS DEALING WITH
 ALTERNATING CURRENT OR DIRECT CURRENT ROTORS OR
 H 768 M2-02 DO YOU INSPECT MOTORS.
 H 769 M2-03 DO YOU CLEAN OR LUBRICATE MOTORS.
 H 770 M2-04 DO YOU OPERATE MOTORS.
 H 771 M2-05 DO YOU REMOVE OR REPLACE COMPLETE MOTORS.
 H 772 M2-06 DO YOU REMOVE OR REPLACE MOTOR PARTS.
 H 773 M2-07 DO YOU TROUBLESHOOT MOTORS AS FAR AS CHECKING WIRE
 CONNECTIONS BUT DO NOT TROUBLESHOOT DOWN TO COMPONENT
 PARTS.
 H 774 M2-08 DO YOU TROUBLESHOOT DOWN TO MOTOR COMPONENT PARTS.

MODULE 19 - MOTORS AND GENERATORS

PCT MARS ANSWERS FOR OPEN BASIC GS
TASK GROUPS NUMBERED
PERCENT MEMBERS PERFORMING

dy-15K

Spec Spec
0000 026 027
0000 026 027

- N 795 M-00 ARE YOU REQUIRED TO PERFORM ANY TASKS ON MOTORS?
N 796 M-10 COILS. ARE YOU REQUIRED TO PERFORM ANY TASKS ON MOTORS?
N 797 M-11 ARE YOU REQUIRED TO PERFORM ANY TASKS ON MOTORS?
N 798 M-12 ARE YOU REQUIRED TO PERFORM ANY TASKS ON MOTORS?
N 799 M-13 ARE YOU REQUIRED TO PERFORM ANY TASKS ON MOTORS?
N 800 M-14 ARE YOU REQUIRED TO PERFORM ANY TASKS ON MOTORS?
N 801 M-15 ARE YOU REQUIRED TO PERFORM ANY TASKS ON MOTORS?
N 802 M-16 COILS.
N 803 M-17 AMMETERS. ARE YOU REQUIRED TO PERFORM ANY TASKS ON MOTORS?
N 804 M-18 COILS.
N 805 M-19 DO YOU WORK WITH INDUCTION MOTORS.
N 806 M-20 DO YOU WORK WITH SYNCHRONOUS MOTORS.
N 807 M-21 DO YOU WORK WITH SPLIT-PHASE MOTORS.
N 808 M-22 DO YOU WORK WITH SOME COMBINATION OF THE ABOVE?
- N 809 M-23 DO YOU INSPECT GENERATORS.
N 810 M-24 DO YOU CLEAN OR LUBRICATE GENERATORS.
N 811 M-25 DO YOU OPERATE GENERATORS.
N 812 M-26 DO YOU REMOVE OR REPLACE COMPLETE GENERATORS.
N 813 M-27 DO YOU REMOVE OR REPLACE GENERATOR PARTS.
N 814 M-28 DO YOU TROUBLESHOOT GENERATORS AS FAR AS CHECKING WIRE CONNECTIONS BUT DO NOT TROUBLESHOOT DOWN TO PARTS.
N 815 M-29 DO YOU TROUBLESHOOT DOWN TO GENERATOR COMPONENT PARTS.
N 816 M-30 DO YOU DESCRIBE THE FUNCTIONS OR USES OF METER PERMANENT MAGNETS.
N 817 M-31 DO YOU DESCRIBE THE FUNCTIONS OR USES OF METER MOVING COILS.
N 818 M-32 DO YOU DESCRIBE THE FUNCTIONS OR USES OF METER SPIRAL SPRINGS.
N 820 M-33 DO YOU READ METER SCALES.
N 821 M-34 DO YOU EXTEND THE RANGE OF AMMETERS.
N 822 M-35 DO YOU ZERO GAUGES.
N 823 M-36 DO YOU ZERO AMMETERS.
N 824 M-37 DO YOU EXTEND THE RANGE OF VOLTMETERS.

MODULE 18 - METERS MOVEMENTS AND CIRCUITS

PCT ANSWERS ANSWER YES FOR OPER DAFSC GPS
 TASK GROUP SUMMARY
 PERCENT MEMBERS PERFORMING

OPERATIONS
 30510 30530 30540

| | 0% | SPC | SPC | 0% |
|---|------|-----|-----|--|
| DY-TSK | 0004 | 026 | 527 | 000 |
| N 625 N1-10 DO YOU USE OR REFER TO VOLTMETER SENSITIVITY LIT IS EXPRESSED IN UNITS OF OHMS PER VOLT. | 0 | 0 | 0 | 0 |
| N 626 N2-01 DO YOU WORK WITH SATURABLE REACTORS OR MAGNETIC AMPLIFIERS IN YOUR PRESENT JOB? | 0 | 0 | 0 | 0 |
| N 627 N2-02 DO YOU INSPECT MAGNETIC AMPLIFIERS OR SATURABLE REACTORS. | 0 | 0 | 0 | 0 |
| N 628 N2-03 DO YOU CLEAN MAGNETIC AMPLIFIERS OR SATURABLE REACTORS. | 0 | 0 | 0 | 0 |
| N 629 N2-04 DO YOU ADJUST MAGNETIC AMPLIFIERS OR SATURABLE REACTORS. | 0 | 0 | 0 | 0 |
| N 630 N2-05 DO YOU TROUBLESHOOT MAGNETIC AMPLIFIERS OR SATURABLE REACTORS. | 0 | 0 | 0 | 0 |
| N 631 N2-06 DO YOU REMOVE OR REPLACE COMPLETE MAGNETIC AMPLIFIERS OR SATURABLE REACTORS. | 0 | 0 | 0 | 0 |
| N 632 N2-07 DO YOU REMOVE OR REPLACE MAGNETIC AMPLIFIERS OR SATURABLE REACTORS COMPONENTS. | 0 | 0 | 0 | 0 |
| N 633 N2-08 DO YOU USE OR REFER TO HYSTERESIS CURVES OR LOOPS. | 0 | 0 | 0 | 0 |
| N 634 N2-09 DO YOU INTERPRET SCHEMATIC DRAWINGS TO DEVELOP OUTPUT WAVEFORMS ACROSS THE REACTOR WINDING OR LOAD | 0 | 0 | 0 | 0 |
| N 635 N2-10 DO YOU MEASURE OUTPUT WAVEFORMS ACROSS THE REACTOR WINDING OR LOAD RESISTOR OF A SINGLE WINDING SATURABLE | 2 | 0 | 0 | 0 |
| N 636 N2-11 DO YOU INTERPRET SCHEMATIC DRAWINGS TO DEVELOP OUTPUT WAVEFORMS FOR MAGNETIC AMPLIFIERS. | 0 | 0 | 0 | 0 |
| N 637 N2-12 DO YOU USE OR REFER TO COERCITIVE FORCE IN A SATURABLE REACTOR. | 0 | 0 | 0 | 0 |
| N 638 N2-13 DO YOU USE OR REFER TO RESIDUAL MAGNETISM IN A SATURABLE REACTOR. | 0 | 0 | 0 | 0 |
| N 639 N2-14 DO YOU USE OR REFER TO FLUX DENSITY IN A SATURABLE REACTOR. | 0 | 0 | 0 | 0 |
| N 640 N2-15 DO YOU USE OR REFER TO POINT OF SATURATION IN A SATURABLE REACTOR. | 0 | 0 | 0 | 0 |
| N 641 N2-16 DO YOU USE OR REFER TO SATURABLE REACTOR SCHEMATIC SYMBOLS. | 0 | 0 | 0 | 0 |
| N 642 N3-01 DO YOU WORK WITH WAVE SHAPING CIRCUITS ON YOUR PRESENT JOB. | 0 | 0 | 0 | 0 |
| N 643 N3-02 DO YOU USE OR REFER TO TRANSIENT INTERVALS. | 0 | 0 | 0 | 0 |
| N 644 N3-03 DO YOU USE OR REFER TO PULSE WIDTH (PW). | 0 | 0 | 0 | 0 |
| N 645 N3-04 DO YOU USE OR REFER TO PULSE RECURRENCE TIME (PRT). | 0 | 0 | 0 | 0 |
| N 646 N3-05 DO YOU USE OR REFER TO PULSE RECURRENCE FREQUENCY (PRF). | 0 | 0 | 0 | 0 |
| N 647 N3-06 DO YOU USE OR REFER TO DIFFERENTIATING CIRCUITS. | 0 | 0 | 0 | 0 |
| N 648 N3-07 DO YOU USE OR REFER TO INTEGRATING CIRCUITS. | 0 | 0 | 0 | 0 |
| N 649 N3-08 DO YOU USE OR REFER TO THE CLASSIFICATION OF TIME CONSTANTS (TC) AS LONG, MEDIUM, OR SHORT. | 0 | 0 | 0 | 0 |
| | | | | MODULE 48 - SOLID STATE SMOOTH GENERATORS |
| | | | | MODULE 49 - SOLID STATE TRAPEZOIDAL GENERATORS |

PCP ANSWER KEYS FOR OPER DAFSC GPS
TASK GROUP SUMMARY
PLACEMENT MEMBERS PERFORMING

OPERATIONS
306XC 306SC 305...

OT-TSK

GP SPC SPC
0004 Q26 Q27

N 660 M2-09 DO YOU DETERMINE WHETHER ANALOG OR RC CIRCUIT IS

Differentiating or Integrating Based on Time

N 651 M2-10 DO YOU WORK WITH SQUARE WAVE GENERATORS.

N 652 M2-11 DO YOU WORK WITH SINEWAVE WAVE GENERATORS.

~~DO NOT USE THIS LINE TO WORK ON CONVENTIONAL SYSTEMS AND SYSTEMS ON YOUR PRESENT JOB.~~

O 654 Q1-02 DO YOU INSPECT SSB SYSTEMS,

O 655 Q1-03 DO YOU CLEAN SSB SYSTEMS.

O 656 Q1-04 DO YOU ALIGN SSB SYSTEMS.

O 657 Q1-05 DO YOU TROUBLESHOOT TO SSB SYSTEMS.

O 658 Q1-06 DO YOU TROUBLESHOOT TO SSB COMPONENTS.

O 659 Q1-07 DO YOU REMOVE OR REPLACE SSB SYSTEMS.

O 660 Q1-08 DO YOU REMOVE OR REPLACE SSB COMPONENTS.

O 661 Q1-09 DO YOU PERFORM ANY TASKS ON SSB AUDIO AMPLIFIERS.

O 662 Q1-10 DO YOU PERFORM ANY TASKS ON SSB BALANCED MODULATORS.

O 663 Q1-11 DO YOU PERFORM ANY TASKS ON SSB CARRIERS.

O 664 Q1-12 DO YOU PERFORM ANY TASKS ON SSB LC FILTERS.

O 665 Q1-13 DO YOU PERFORM ANY TASKS ON SSB CRYSTAL FILTERS.

O 666 Q1-14 DO YOU PERFORM ANY TASKS ON SSB MECHANICAL FILTERS.

O 667 Q1-15 DO YOU PERFORM ANY TASKS ON SSB OSCILLATORS.

O 668 Q1-16 DO YOU PERFORM ANY TASKS ON SSB MIXERS.

O 669 Q1-17 DO YOU PERFORM ANY TASKS ON SSB DRIVERS.

O 670 Q1-18 DO YOU PERFORM ANY TASKS ON SSB POWER AMPLIFIERS.

O 671 Q1-19 DO YOU PERFORM ANY TASKS ON SSB RF AMPLIFIERS.

O 672 Q1-20 DO YOU PERFORM ANY TASKS ON SSB FREQUENCY CONVERTERS.

O 673 Q1-21 DO YOU PERFORM ANY TASKS ON SSB IF AMPLIFIERS.

O 674 Q1-22 DO YOU PERFORM ANY TASKS ON SSB DEMODULATORS.

O 675 Q1-23 DO YOU PERFORM ANY TASKS ON SSB DON'T MEMBER WHICH SYSTEM STAGES.

O 676 Q1-24 DO YOU USE OR REFER TO SELECTIVE PADGING.

O 677 Q1-25 DO YOU USE OR REFER TO PEAK POWER.

O 678 Q1-26 DO YOU USE OR REFER TO FREQUENCY STABILITY.

O 679 Q1-27 DO YOU USE OR REFER TO RESPONSE CURVES FOR BANDWIDTH FILTERS.

O 680 Q1-28 DO YOU CALCULATE PEAK POWER OR EFFECTIVE POWER OF SSB TRANSMITTERS.

O 681 Q1-29 DO YOU TRACE SIGNALS OR CURRENT PATHS THROUGH SSB TRANSMITTER SCHEMATIC DIAGRAMS.

O 682 Q1-30 DO YOU TRACE SIGNALS OR CURRENT PATHS THROUGH SSB RECEIVING SCHEMATIC DIAGRAMS.

O 683 Q1-31 DO YOU WORK ON PULSE MODULATION SYSTEMS ON YOUR PRESENT JOB.

MODULE 70 - SINGLE SIDEBAND SYSTEMS

J 684 Q1-01 DO YOU WORK ON PULSE MODULATION SYSTEMS ON YOUR PRESENT JOB.

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PCT MARS ANSWER TES FOR OPER DAFSC GPS
 TASK GROUP SUMMARY
 PERCENT MEMBERS PERFORMING

UPSUMS PAGE 132

| | PERCENT | GP | SPC | SPC |
|---|---------|------|-----|-----|
| DO-TASK | | 0001 | 026 | 027 |
| 0 884 02-02 DO YOU INSPECT PULSE MODULATION SYSTEMS. | 0 | 0 | 0 | 0 |
| 0 885 02-03 DO YOU CLEAN PULSE MODULATION SYSTEMS. | 0 | 0 | 0 | 0 |
| 0 886 02-04 DO YOU ALIGN PULSE MODULATION SYSTEMS. | 0 | 0 | 0 | 0 |
| 0 887 02-05 DO YOU TROUBLESHOOT TO PULSE MODULATION SYSTEMS. | 0 | 0 | 0 | 0 |
| 0 888 02-06 DO YOU TROUBLESHOOT TO PULSE MODULATION SYSTEMS. | 0 | 0 | 0 | 0 |
| 0 889 02-07 DO YOU REMOVE OR REPLACE PULSE MODULATION SYSTEMS. | 0 | 0 | 0 | 0 |
| 0 890 02-08 DO YOU REMOVE OR REPLACE PULSE MODULATION SYSTEMS. | 0 | 0 | 0 | 0 |
| 0 891 02-09 DO YOU WORK ON PULSE-AMPLITUDE MODULATION (PAM) SYSTEMS. | 0 | 0 | 0 | 0 |
| 0 892 02-10 DO YOU WORK ON PULSE-DURATION MODULATION (PDM) SYSTEMS. | 0 | 0 | 0 | 0 |
| 0 893 02-11 DO YOU WORK ON PULSE POSITION MODULATION (PPM) | 0 | 0 | 0 | 0 |
| 0 894 02-12 DO YOU WORK ON PULSE-CODE MODULATION (PCM) | 2 | 0 | 0 | 0 |
| 0 895 02-13 DO YOU WORK ON LINE PULSING MODULATION SYSTEMS. | 0 | 0 | 0 | 0 |
| 0 896 02-14 DO YOU WORK ON DON'T REMEMBER WHICH TYPE OF PULSE MODULATION SYSTEM. | 0 | 0 | 0 | 0 |
| 0 897 02-15 DO YOU PERFORM TASKS ON PULSE MODULATION SYSTEM POWER SUPPLIES. | 0 | 0 | 0 | 0 |
| 0 898 02-16 DO YOU PERFORM TASKS ON PULSE MODULATION SYSTEM CHARGING CHORE AND CHANGING DIODES. | 0 | 0 | 0 | 0 |
| 0 899 02-17 DO YOU PERFORM TASKS ON PULSE MODULATION SYSTEM PULSE FORMING NETWORKS. | 0 | 0 | 0 | 0 |
| 0 900 02-18 DO YOU PERFORM TASKS ON PULSE MODULATION SYSTEM TIMERS. | 0 | 0 | 0 | 0 |
| 0 901 02-19 DO YOU PERFORM TASKS ON PULSE MODULATION SYSTEM SWITCHES SUCH AS GAS THYRATRONS. | 0 | 0 | 0 | 0 |
| 0 902 02-20 DO YOU PERFORM TASKS ON PULSE MODULATION SYSTEM PULSE TRANSFORMERS: | 0 | 0 | 0 | 0 |
| 0 903 02-21 DO YOU PERFORM TASKS ON PULSE MODULATION SYSTEM TRANSMITTER TUBES. | 0 | 0 | 0 | 0 |
| 0 904 02-22 DO YOU PERFORM TASKS ON PULSE MODULATION SYSTEM IF AMPLIFIERS. | 0 | 0 | 0 | 0 |
| 0 905 02-23 DO YOU PERFORM TASKS ON PULSE MODULATION SYSTEM FREQUENCY CONVERTERS. | 0 | 0 | 0 | 0 |
| 0 906 02-24 DO YOU PERFORM TASKS ON PULSE MODULATION SYSTEM VIDEO AMPLIFIERS. | 0 | 0 | 0 | 0 |
| 0 907 02-25 DO YOU PERFORM TASKS ON PULSE MODULATION SYSTEM DETECTORS. | 0 | 0 | 0 | 0 |
| 0 908 02-26 DO YOU PERFORM TASKS ON PULSE MODULATION SYSTEM VIDEO AMPLIFIERS. | 0 | 0 | 0 | 0 |
| 0 909 02-27 DO YOU PERFORM TASKS ON PULSE MODULATION SYSTEM POWER VIDEO AMPLIFIERS. | 0 | 0 | 0 | 0 |
| 0 910 02-28 DO YOU PERFORM TASKS ON PULSE MODULATION SYSTEM DON'T REMEMBER WHICH STAGE. | 0 | 0 | 0 | 0 |

PCT HRS. ANSWER YES FOR QPER. UAPSC SPS.
 TASK GROUP SUMMARY
 PERCENT MEMBERS PERFORMING

ANSWER PAGE

OPERATIONS
 398X3 30303 30370

DY-TSK

GP SPC SPC

0004 024 027

0 911 02-29 DO YOU USE OR REFER TO PULSE RECURRENCE FREQUENCY
 (PRF).
 0 912 02-30 DO YOU USE OR REFER TO PULSE RECURRENCE TIME
 (PRT).
 0 913 02-31 DO YOU USE OR REFER TO PULSE WIDTH (PRW).
 0 914 02-32 DO YOU USE OR REFER TO PULSE SHAPE.
 0 915 02-33 DO YOU USE OR REFER TO PEAK POWER.
 0 916 02-34 DO YOU USE OR REFER TO AVERAGE POWER.
 0 917 02-35 DO YOU CALCULATE PULSE RECURRENCE TIME (PRT) OR
 PULSE RECURRENCE FREQUENCY (PRF).
 0 918 02-36 DO YOU MEASURE PULSE RECURRENCE TIME (PRT) OR
 PULSE RECURRENCE FREQUENCY (PRF).
 0 919 02-37 DO YOU CALCULATE AVERAGE POWER OR PEAK POWER OF
 PULSE MODULATION TRANSMIT SYSTEM.
 0 920 02-38 DO YOU USE FORMULAS TO CALCULATE AVERAGE POWER OR
 PEAK POWER OF PULSE MODULATION TRANSMIT SYSTEMS.
 0 921 02-39 DO YOU TRACE SIGNALS OR CURRENT PATHS THROUGH
 PULSE MODULATION TRANSMITTER SCHEMATIC DIAGRAMS.
 0 922 02-40 DO YOU TRACE SIGNALS OR CURRENT PATHS THROUGH
 PULSE MODULATION RECEIVER SCHEMATIC DIAGRAMS.

0 923 03-01 DO YOU WORK WITH ANTENNAS ON YOUR PRESENT JOB.

0 924 03-02 DO YOU INSPECT ANTENNAS.
 0 925 03-03 DO YOU CLEAN ANTENNAS.

0 926 03-04 DO YOU ELECTRICALLY ALIGN ANTENNAS.

0 927 03-05 DO YOU TROUBLESHOOT TO ANTENNA.

0 928 03-06 DO YOU TROUBLESHOOT TO ANTENNA COMPONENTS.

0 929 03-07 DO YOU REMOVE OR INSTALL ANTENNAS.

0 930 03-08 DO YOU REMOVE OR REPLACE COMPONENTS ON ANTENNAS.

0 931 03-09 DO YOU USE OR REFER TO TECHNICAL DATA CONTAINING
 REPRESENTATIONS OF E ELECTRIC FIELD LINES.

0 933 03-11 DO YOU USE OR REFER TO TECHNICAL DATA CONTAINING
 REPRESENTATIONS OF H MAGNETIC FIELD LINES.

0 934 03-12 DO YOU DETERMINE THE DIRECTION OF THE MAGNETIC
 LINES IN RELATION TO THE ELECTRIC LINES OF FORCE FOR

0 935 03-13 DO YOU USE OR REFER TO THE GENERAL RULE THAT
 ANTENNAS WHICH ARE OF CORRECT LENGTH (HALF-WAVE) ACT AS

0 936 03-14 DO YOU USE OR REFER TO THE GENERAL RULE THAT
 ANTENNAS WHICH ARE LONGER THAN A HALF-WAVE ACT AS

0 937 03-15 DO YOU USE OR REFER TO THE GENERAL RULE THAT
 ANTENNAS WHICH ARE SHORTER THAN A HALF-WAVE ACT AS

0 938 03-16 DO YOU WORK WITH HERTZ ANTENNAS.
 0 939 03-17 DO YOU WORK WITH MARCONI ANTENNAS.

MODULE 67 - ANTENNAS

PCT 485 ANSWER YES FOR QPER DATA SPS
 TASK GROUP SUMMARY
 PERCENT MEMBERS PERFORMING

GENERAL PAGE 1A5

SPECIFICATIONS
 309YC 3C930 3097C

OT-75

- P 961 P1-03 DO YOU REFER TO OR USE SKIN EFFECTS OF HIGH FREQUENCY CURRENTS IN TRANSMISSION LINES.
 P 962 P1-04 DO YOU REFER TO OR USE RADIATION LOSS IN TRANSMISSION LINES.
 P 963 P1-05 DO YOU REFER TO OR USE ELECTRIC LOSS IN TRANSMISSION LINES.
 P 967 P1-06 DO YOU REFER TO OR USE LEAKAGE LOSSES IN TRANSMISSION LINES.
- P 968 P1-07 DO YOU WORK WITH TWISTED PAIR TRANSMISSION LINES.
 P 969 P1-08 DO YOU WORK WITH TWIN LEAD TRANSMISSION LINES.
 P 970 P1-09 DO YOU WORK WITH OPEN TWO-WIRE TRANSMISSION LINES.
 P 971 P1-10 DO YOU WORK WITH FLEXIBLE COAXIAL CABLE.
- P 972 P1-11 DO YOU WORK WITH RIGID COAXIAL CABLE.
 P 973 P1-12 DO YOU TROUBLESHOOT TRANSMISSION LINES.
 P 974 P1-13 DO YOU ANALYZE VOLTAGE OR CURRENT WAVEFORMS IN TRANSMISSION LINES TO DETERMINE THE TYPE OF TERMINATION
- P 975 P1-14 DO YOU SELECT APPROPRIATE TRANSMISSION LINE TERMINATIONS TO ACHIEVE DESIRED WAVEFORMS.
 P 976 P1-15 DO YOU USE OR REFER TO SCHEMATIC SYMBOLS FOR LINE TERMINATIONS IN TERMS OF CIRCUIT TERMINATIONS.
 P 977 P1-16 DO YOU MEASURE STANDING WAVE RATIOS (SWR) OF TRANSMISSION LINES.
 P 978 P1-17 DO YOU CALCULATE STANDING WAVE RATIOS (SWR) OF TRANSMISSION LINES.
- P 979 P1-18 DO YOU PERFORM THE CALCULATIONS NECESSARY TO DETERMINE THE IMPEDANCE AND LENGTH OF QUARTER WAVE MATCHED TO A LOAD USING DELTA MATCHING.
- P 980 P1-19 DO YOU WORK WITH TRANSMISSION LINES WHICH ARE MATCHED TO LOAD USING MATCHING TRANSFORMERS.
- P 981 P1-20 DO YOU WORK WITH TRANSMISSION LINES WHICH ARE MATCHED TO A LOAD USING DELTA MATCHING.
- P 982 P1-21 DO YOU SELECT THE TYPE OF TRANSMISSION LINE NEEDED FOR A PARTICULAR JOB WITHOUT REFERRING TO TECHNICAL
- P 983 P1-22 DO YOU REFER TO OR USE THE TERM CHARACTERISTIC IMPEDANCE (Z₀) OF TRANSMISSION LINES.
- P 984 P1-23 DO YOU CALCULATE THE CHARACTERISTIC IMPEDANCE (Z₀) OF TRANSMISSION LINES.
- P 985 P1-24 DO YOU REFER TO OR USE THE TERM CUTOFF FREQUENCY OF TRANSMISSION LINES.
- P 986 P1-25 DO YOU REFER TO OR USE THE TERM VELOCITY FACTOR (k) OF TRANSMISSION LINES.
- P 987 P1-26 DO YOU COMPUTE THE ELECTRICAL LENGTH OF TRANSMISSION LINES FOR PARTICULAR FREQUENCIES.
- P 988 P1-27 DO YOU CONSTRUCT TRANSMISSION LINES OF A PARTICULAR ELECTRICAL LENGTH FOR GIVEN FREQUENCIES.

MODULE 66 - TRANSMISSION LINES

- GP 0004 SPC 026 SPC 027
- P 961 P1-03 DO YOU REFER TO OR USE SKIN EFFECTS OF HIGH FREQUENCY CURRENTS IN TRANSMISSION LINES.
 P 962 P1-04 DO YOU REFER TO OR USE RADIATION LOSS IN TRANSMISSION LINES.
 P 963 P1-05 DO YOU REFER TO OR USE ELECTRIC LOSS IN TRANSMISSION LINES.
 P 967 P1-06 DO YOU REFER TO OR USE LEAKAGE LOSSES IN TRANSMISSION LINES.
- P 968 P1-07 DO YOU WORK WITH TWISTED PAIR TRANSMISSION LINES.
 P 969 P1-08 DO YOU WORK WITH TWIN LEAD TRANSMISSION LINES.
 P 970 P1-09 DO YOU WORK WITH OPEN TWO-WIRE TRANSMISSION LINES.
 P 971 P1-10 DO YOU WORK WITH FLEXIBLE COAXIAL CABLE.
- P 972 P1-11 DO YOU WORK WITH RIGID COAXIAL CABLE.
 P 973 P1-12 DO YOU TROUBLESHOOT TRANSMISSION LINES.
 P 974 P1-13 DO YOU ANALYZE VOLTAGE OR CURRENT WAVEFORMS IN TRANSMISSION LINES TO DETERMINE THE TYPE OF TERMINATION
- P 975 P1-14 DO YOU SELECT APPROPRIATE TRANSMISSION LINE TERMINATIONS TO ACHIEVE DESIRED WAVEFORMS.
 P 976 P1-15 DO YOU USE OR REFER TO SCHEMATIC SYMBOLS FOR LINE TERMINATIONS IN TERMS OF CIRCUIT TERMINATIONS.
 P 977 P1-16 DO YOU MEASURE STANDING WAVE RATIOS (SWR) OF TRANSMISSION LINES.
- P 978 P1-17 DO YOU CALCULATE STANDING WAVE RATIOS (SWR) OF TRANSMISSION LINES.
- P 979 P1-18 DO YOU PERFORM THE CALCULATIONS NECESSARY TO DETERMINE THE IMPEDANCE AND LENGTH OF QUARTER WAVE MATCHED TO A LOAD USING DELTA MATCHING.
- P 980 P1-19 DO YOU WORK WITH TRANSMISSION LINES WHICH ARE MATCHED TO LOAD USING MATCHING TRANSFORMERS.
- P 981 P1-20 DO YOU WORK WITH TRANSMISSION LINES WHICH ARE MATCHED TO A LOAD USING DELTA MATCHING.
- P 982 P1-21 DO YOU SELECT THE TYPE OF TRANSMISSION LINE NEEDED FOR A PARTICULAR JOB WITHOUT REFERRING TO TECHNICAL
- P 983 P1-22 DO YOU REFER TO OR USE THE TERM CHARACTERISTIC IMPEDANCE (Z₀) OF TRANSMISSION LINES.
- P 984 P1-23 DO YOU CALCULATE THE CHARACTERISTIC IMPEDANCE (Z₀) OF TRANSMISSION LINES.
- P 985 P1-24 DO YOU REFER TO OR USE THE TERM CUTOFF FREQUENCY OF TRANSMISSION LINES.
- P 986 P1-25 DO YOU REFER TO OR USE THE TERM VELOCITY FACTOR (k) OF TRANSMISSION LINES.
- P 987 P1-26 DO YOU COMPUTE THE ELECTRICAL LENGTH OF TRANSMISSION LINES FOR PARTICULAR FREQUENCIES.
- P 988 P1-27 DO YOU CONSTRUCT TRANSMISSION LINES OF A PARTICULAR ELECTRICAL LENGTH FOR GIVEN FREQUENCIES.

PCT MARS ANSYES YES FOR OPER DAPSC SP's
 TASK GROUP SUMMARY
 PENTENT MEMBERS PERFORMING

EXPOSURE PAGE 130
 OPERATORS
 3381C 3055C 3057C

DY-TSK

- P 909 P1-26 DO YOU USE OR REFER TO THE GENERAL RULE THAT AS THE PHYSICAL LENGTH OF A TRANSMISSION LINE REMAINS P 900 P1-29 DO YOU WORK WITH NO RESONANT (FLAT) TRANSMISSION LINES.
- P 911 P1-30 DO YOU WORK WITH RESONANT TRANSMISSION LINES.
- P 912 P1-31 DO YOU WORK WITH TRANSMISSION LINES WHICH ARE MATCHED TO A LOAD USING STUB MATCHING.
- P 913 P2-01 DO YOU WORK WITH WAVEGUIDES ON CAVITY RESONATORS ON YOUR PRESENT JOB.
- P 914 P2-02 DO YOU INSPECT WAVEGUIDES OR CAVITY RESONATORS.
- P 915 P2-03 DO YOU CLEAN WAVEGUIDES OR CAVITY RESONATORS.
- P 916 P2-04 DO YOU BEND WAVEGUIDES ON CAVITY RESONATORS.
- P 917 P2-05 DO YOU TWIST WAVEGUIDES OR CAVITY RESONATORS.
- P 918 P2-06 DO YOU PRESSURIZE WAVEGUIDES OR CAVITY RESONATORS.
- P 919 P2-07 DO YOU PURGE WAVEGUIDES OR CAVITY RESONATORS.
- P100 P2-08 DO YOU TROUBLESHOOT WAVEGUIDES OR CAVITY RESONATORS.

P101 P2-09 DO YOU REMOVE OR INSTALL COMPLETE WAVEGUIDE.

P102 P2-10 DO YOU REMOVE OR INSTALL WAVEGUIDE SECTIONS.

P103 P2-11 DO YOU REMOVE OR INSTALL DUMMY LOADS.

P104 P2-12 DO YOU REMOVE OR INSTALL E BENDS.

P105 P2-13 DO YOU REMOVE OR INSTALL H BENDS.

P106 P2-14 DO YOU REMOVE OR INSTALL OTHER BENDS.

P107 P2-15 DO YOU REMOVE OR INSTALL CHOKES JOINTS.

P108 P2-16 DO YOU REMOVE OR INSTALL ROTATING JOINTS.

P109 P2-17 DO YOU REMOVE OR INSTALL DIRECTIONAL COUPLERS.

P110 P2-18 DO YOU REMOVE OR INSTALL BI-DIRECTIONAL COUPLERS.

P111 P2-19 DO YOU USE OR REFER TO "A" WALL OF WAVEGUIDES.

P112 P2-20 DO YOU USE OR REFER TO "B" WALL OF WAVEGUIDES.

P113 P2-21 DO YOU USE OR REFER TO CUTOFF FREQUENCY OF

WAVEGUIDES.

P114 P2-22 DO YOU USE OR REFER TO FREQUENCY-DETERMINING WALL

OF WAVEGUIDES.

P115 P2-23 DO YOU USE OR REFER TO POWER-DETERMINING WALL OF

WAVEGUIDES.

P116 P2-24 DO YOU USE OR REFER TO ELECTRIC FIELD BOUNDARY

CONDITIONS.

P117 P2-25 DO YOU USE OR REFER TO MAGNETIC FIELD BOUNDARY

CONDITIONS.

P118 P2-26 DO YOU USE OR REFER TO DUBLER FIELD BOUNDARY

CONDITIONS.

P119 P2-27 DO YOU USE OR REFER TO THE GENERAL RULE THAT MOST

WAVEGUIDES ARE MADE WITH A ".8" WALL SIZE OF .7

P120 P2-28 DO YOU USE OR REFER TO THE GENERAL RULE THAT MOST

"A" WALLS RANGE FROM .2 TO .5 WAVELENGTHS IN SIZE, WITH

SPC
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 SPC
 0004 026 047

MODULE 74 - WAVEGUIDES AND CAVITY

RESONATORS

PCT MEMS ANSWERS YES FOR OPER-DATSC 6025
 TASK GROUP SUMMARY
 PERCENT MEMBERS PERFORMING

OPERATIONS
 SCBL-C 300353 30870

| DRY-TEST | SPC | SPS |
|--|-----|-----|
| P1021 P2-29 ARE YOU CONCERNED WITH THE MATERIAL (SUCH AS
BRASS) WHICH WAVEGUIDES ARE MADE OF? | 0 | 0 |
| P1022 P2-30 DO YOU COMPUTE THE LENGTH OF A WAVEGUIDE FOR
SPECIFIC INSTALLATION? | 0 | 0 |
| P1023 P2-31 DO YOU USE THE RIGHT HAND RULE TO DETERMINE THE
DIRECTION OF PROPAGATION, DIRECTION OF E FIELD, OR
P1024 P2-32 DO YOU USE OR REFER TO THE TIME PHASE OF PEAK "E"
AND "H" LINES IN WAVEGUIDES. | 0 | 0 |
| P1025 P2-33 DO YOU MEASURE THE TIME PHASE OF "E" AND "H" LINES
IN WAVEGUIDES? | 0 | 0 |
| P1026 P2-34 DO YOU USE OR REFER TO THE SPACE QUADRATURE OF "E"
AND "H" LINES IN WAVEGUIDES? | 0 | 0 |
| P1027 P2-35 ARE HIGH POWER PROBES USED ON WAVEGUIDES OR CAVITY
RESONATORS YOU WORK WITH? | 0 | 0 |
| P1028 P2-36 ARE LOW POWER PROBES USED ON WAVEGUIDES OR CAVITY
RESONATORS YOU WORK WITH? | 0 | 0 |
| P1029 P2-37 ARE LOOPS USED ON WAVEGUIDES OR CAVITY RESONATORS
YOU WORK WITH? | 0 | 0 |
| P1030 P2-38 ARE APERTURES (WINDOWS OR IRISSES) USED ON
WAVEGUIDES OR CAVITY RESONATORS YOU WORK WITH? | 0 | 0 |
| P1031 P1-39 ARE YOU REMEMBER WHICH ENERGY COUPLING DEVICE
USED ON WAVEGUIDES OR CAVITY RESONATORS YOU WORK WITH? | 0 | 0 |
| P1032 P2-40 DO YOU DETERMINE WHERE PROBES SHOULD BE
MOUNTED IN WAVEGUIDES OR CAVITY RESONATORS WITHOUT
APERTURES? | 0 | 0 |
| P1033 P2-41 DO YOU DETERMINE THE POSITIONING OF LOOPS IN
WAVEGUIDES OR CAVITY RESONATORS WITHOUT REFERRING TO
P1034 P2-42 DO YOU DETERMINE THE POSITIONING OR SIZE OF
APERTURES IN WAVEGUIDES OR CAVITY RESONATORS WITHOUT
P1035 P2-43 ARE CHOKED JOINTS USED ON WAVEGUIDES OR CAVITY
RESONATORS YOU WORK WITH? | 0 | 0 |
| P1036 P2-44 ARE ROTATING JOINTS USED ON WAVEGUIDES OR CAVITY
RESONATORS YOU WORK WITH? | 0 | 0 |
| P1037 P2-45 ARE YOU DON'T REMEMBER WHICH KIND OF JOINT USED ON
WAVEGUIDES OR CAVITY RESONATORS YOU WORK WITH? | 0 | 0 |
| P1038 P2-46 DO YOU TUNE CAVITY RESONATORS USING CAPACITIVE
TUNING? | 0 | 0 |
| P1039 P2-47 DO YOU TUNE CAVITY RESONATORS USING INDUCTIVE
TUNING? | 0 | 0 |
| P1040 P2-48 DO YOU TUNE CAVITY RESONATORS USING VOLUME TUNING? | 0 | 0 |
| P1041 P2-49 DO YOU TUNE CAVITY RESONATORS USING DON'T REMEMBER
HOW? | 0 | 0 |
| P1042 P2-50 DO YOU MEASURE THE FREQUENCY OF SIGNALS IN CAVITY
RESONATORS? | 0 | 0 |

PCT WORKS ANSWERS YES FOR OPER DAPSC GPS
 TASK GROUP SUMMARY
 PERCENT MEMBERS PERFORMING

GPMU4 PAGE 138

OPERATIONS
 3C3AC 3333 32270

DY-TSK

P1043 P3-01 ON YOUR PRESENT JOB DO YOU WORK WITH KLYSTRONS, TRAVELING WAVE TUBES (TWT), PARAMETRIC AMPLIFIERS, OR PL044 P3-02 DO YOU USE OR REFER TO INTERELECTRODE CAPACITANCE.

P1045 P3-03 DO YOU USE OR REFER TO ELECTRON TRANSIT TIME.

P1046 P3-04 DO YOU USE OR REFER TO LEAD INDUCTANCE.

P1047 P3-05 DO YOU USE OR REFER TO RF LOSSES IN EXTERNAL CIRCUITRY.

P1048 P3-06 DO YOU USE OR REFER TO PRINCIPLE OF ELECTRON VELOCITY MODULATION.

P1049 P3-07 DO YOU USE OR NEVER TO ELECTRON BUNCHING.

P1050 P3-08 DO YOU WORK WITH TWO-CAVITY KLYSTRONS.

P1051 P3-09 DO YOU WORK WITH THREE-CAVITY KLYSTRONS.

P1052 P3-10 DO YOU WORK WITH REFLEX KLYSTRONS.

P1053 P3-11 DO YOU WORK WITH TRAVELING-WAVE TUBES (TWT).

P1054 P3-12 DO YOU WORK WITH MONODEGENERATIVE PARAMETRIC AMPLIFIERS.

P1055 P3-13 DO YOU WORK WITH UP-CONVERTER PARAMETRIC AMPLIFIERS.

P1056 P3-14 DO YOU WORK WITH MAGNETRONS.

P1057 P3-15 DO YOU INSPECT TWT OR KLYSTRONS.

P1058 P3-16 DO YOU CLEAN TWT OR KLYSTRONS.

P1059 P3-17 DO YOU TUNE TWT OR KLYSTRONS ELECTRICALLY.

P1060 P3-18 DO YOU TUNE TWT OR KLYSTRONS MECHANICALLY.

P1061 P3-19 DO YOU PERFORM OPERATIONAL CHECKS OF TWT OR KLYSTRONS.

P1062 P3-20 DO YOU TROUBLESHOOT TWT OR KLYSTRONS.

P1063 P3-21 DO YOU REMOVE OR REPLACE COMPLETE TWT OR KLYSTRONS ASSEMBLY.

P1064 P3-22 DO YOU REMOVE OR REPLACE TWT OR KLYSTRONS COMPONENTS.

P1065 P3-23 DO YOU INSPECT PARAMETRIC AMPLIFIERS.

P1066 P3-24 DO YOU CLEAN PARAMETRIC AMPLIFIERS.

P1067 P3-25 DO YOU ADJUST PARAMETRIC AMPLIFIERS.

P1068 P3-26 DO YOU TUNE PARAMETRIC AMPLIFIERS.

P1069 P3-27 DO YOU PERFORM OPERATIONAL CHECKS OF PARAMETRIC AMPLIFIERS.

P1070 P3-28 DO YOU TROUBLESHOOT PARAMETRIC AMPLIFIERS.

P1071 P3-29 DO YOU REMOVE OR REPLACE COMPLETE PARAMETRIC AMPLIFIERS.

P1072 P3-30 DO YOU REMOVE OR REPLACE COMPONENTS OF PARAMETRIC AMPLIFIERS.

P1073 P3-31 DO YOU INSPECT MAGNETRONS.

P1074 P3-32 DO YOU CLEAN MAGNETRONS.

P1075 P3-33 DO YOU ADJUST MAGNETRONS.

P1076 P3-34 DO YOU TUNE MAGNETRONS.

P1077 P3-35 DO YOU PERFORM OPERATIONAL CHECKS OF MAGNETRONS.

MODULE 75 - MICROWAVE AMPLIFIERS AND OSCILLATORS

UP SPC SPC
 0004 024 027

TASK GROUP SUMMARY PRELIMINARY REPORTS

PCT MARS ANSWER YES FOR OPER DAYSC CPS
 TASK GROUP SUMMARY
 PERCENT MEMBERS PERFORMING

CHSUNG PAGE 14.

333-1
333-2
333-3
333-4

DY-T5K

6P DPC
COU 026 327

- P1103 P3-61 DO YOU USE OR REFER TO THE OPERATING PRINCIPLES OF TWT COLLECTORS. 0 0 0
 P1104 P3-62 DO YOU USE OR REFER TO THE OPERATING PRINCIPLES OF TWT MAGNETS. 0 0 0
 P1105 P3-63 DO YOU USE OR REFER TO THE OPERATING PRINCIPLES OF TWT ATTENUATORS. 0 0 0
 P1106 P3-64 DO YOU PERFORM TASKS ON PARAMETRIC AMPLIFIER FERRITE CIRCULATORS. 0 0 0
 P1107 P3-65 DO YOU PERFORM TASKS ON PARAMETRIC AMPLIFIER SIGNAL CAVITIES. 0 0 0
 P1108 P3-66 DO YOU PERFORM TASKS ON PARAMETRIC AMPLIFIER TIDLER CAVITIES. 0 0 0
 P1109 P3-67 DO YOU PERFORM TASKS ON PARAMETRIC AMPLIFIER VARACTOR DIODES. 0 0 0
 P1110 P3-68 DO YOU PERFORM TASKS ON PARAMETRIC AMPLIFIER FERRITE ISOLATORS. 0 0 0
 P1111 P3-69 DO YOU PERFORM TASKS ON PARAMETRIC AMPLIFIER REVERSE-BIAS BATTERIES. 0 0 0
 P1112 P3-70 DO YOU PERFORM TASKS ON MAGNETRON ANODES. 0 0 0
 P1113 P3-71 DO YOU PERFORM TASKS ON MAGNETRON ANODE COOLING PINS. 0 0 0
 P1114 P3-72 DO YOU PERFORM TASKS ON MAGNETRON COUPLING LOOPS. 0 0 0
 P1115 P3-73 DO YOU PERFORM TASKS ON MAGNETRON HEATER LEADS. 0 0 0
 P1116 P3-74 DO YOU PERFORM TASKS ON MAGNETRON RESONANT CAVITIES. 0 0 0
 P1117 P3-75 DO YOU PERFORM TASKS ON MAGNETRON CATHODES. 0 0 0
 P1118 P3-76 DO YOU PERFORM TASKS ON MAGNETRON MAGNETS. 0 0 0
 Q1107 QT-01 DO YOU USE OR REFER TO STORAGE REGISTERS. 0 0 0
 Q1120 Q1-02 DO YOU USE OR REFER TO SHIFT REGISTERS. 0 0 0
 Q1121 Q1-03 DO YOU USE OR REFER TO LOGIC SYMBOL OF SHIFT REGISTERS. 0 0 0
 Q1122 QT-04 DO YOU USE OR REFER TO LOGIC SYMBOL OF STORAGE REGISTERS. 0 0 0
 Q1123 Q1-05 DO YOU TRACE THE DATA FLOW THROUGH LOGIC DIAGRAMS OF SHIFT REGISTERS. 0 0 0
 Q1124 QT-06 DO YOU TRACE THE DATA FLOW THROUGH LOGIC DIAGRAMS OF OTHER TYPE REGISTER. 0 0 0
 Q1125 Q1-07 DO YOU DETERMINE THE STATE OF EACH FLIP-FLOP OF A SHIFT REGISTER AFTER A SPECIFIED NUMBER OF SHIFT PULSES. 0 0 0
 S1126 S2-01 DO YOU WORK WITH DIGITAL COUNTERS, REGISTERS, OR STORAGE DEVICES IN YOUR PRESENT JOB. 11 17 6
 Q1127 Q2-02 DO YOU USE OR REFER TO DELAY LINES. 5 4 3
 Q1128 Q2-03 DO YOU USE OR REFER TO MAGNETIC CORES. 3 0 3
 Q1129 Q2-04 DO YOU USE OR REFER TO MAGNETIC OHMS. 3 0 3
 Q1130 Q2-05 DO YOU USE OR REFER TO MAGNETIC TAPES. 3 1 3
 Q1131 Q2-06 DO YOU USE OR REFER TO ACCESS TIMES OR SPEED OF MEMORY SYSTEMS. 3 2 3

PC1 MEMBERS ANSWER YES FOR OPEN Q&FIC QPS

| TASK GROUP SUMMARY
PERCENT MEMBERS PERFORMING | DEFINITIONS
CODES/SCHEMES ETC. | SPC
JOUW U26 Q27 | SPC
JOUW SPC |
|--|-----------------------------------|---------------------|-----------------|
| Q1132 Q2-07 DO YOU USE OR REFER TO WORD CAPACITY OF MEMORY SYSTEMS. | 5 4 3 | 0 0 0 | 0 0 0 |
| Q1133 Q2-08 DO YOU USE OR REFER TO VOLATILITY OF MEMORY SYSTEMS. | 4 4 0 | 0 0 0 | 0 0 0 |
| Q1134 Q2-09 DO YOU USE OR REFER TO LOGIC SYMBOL OF DELAY LINES. | 0 0 0 | 0 0 0 | 0 0 0 |
| <u>Q1135 Q2-10 ON YOUR PRESENT JOB DO YOU WORK WITH DIGITAL-TO-DIGITAL ANALOG (D/A) CONVERTERS, ANALOG-TO-DIGITAL (A/D) SYSTEMS.</u> | 11 11 | 0 0 | 0 0 |
| Q1136 Q3-02 DO YOU COMPUTE THE OUTPUT VOLTAGE OR AN ELECTROMECHANICAL DIGITAL-TO-ANALOG (D/A) CONVERTER FOR A COUNT IN A ELECTROMECHANICAL DIGITAL-TO-ANALOG (D/A) | 0 0 0 | 0 0 0 | 0 0 0 |
| Q1137 Q3-03 DO YOU USE OR REFER TO THE GENERAL RULE THAT THE COUNT IN A ELECTROMECHANICAL DIGITAL-TO-ANALOG (D/A) | 0 0 0 | 0 0 0 | 0 0 0 |
| Q1138 Q3-04 DO YOU COMPUTE THE ANALOG VOLTAGE FOR A GIVEN BINARY COUNT IN ELECTRONIC DIGITAL-TO-ANALOG (D/A) | 0 0 0 | 0 0 0 | 0 0 0 |
| Q1139 Q3-05 DO YOU PERFORM ANY TASKS ON THE SAMPLE FUNCTION OF VARIABLE TIME ANALOG-TO-DIGITAL (A/D) CONVERTER | 0 0 0 | 0 0 0 | 0 0 0 |
| Q1140 Q3-06 DO YOU PERFORM ANY TASKS ON THE HOLD FUNCTION OF VARIABLE TIME ANALOG-TO-DIGITAL (A/D) CONVERTER | 0 0 0 | 0 0 0 | 0 0 0 |
| Q1141 Q3-07 DO YOU PERFORM ANY TASKS ON THE COMPARE FUNCTION OF VARIABLE TIME ANALOG-TO-DIGITAL (A/D) CONVERTER | 0 0 0 | 0 0 0 | 0 0 0 |
| Q1142 Q3-08 DO YOU PERFORM ANY TASKS ON THE DIGITIZE FUNCTION OF VARIABLE TIME ANALOG-TO-DIGITAL (A/D) CONVERTER | 0 0 0 | 0 0 0 | 0 0 0 |
| Q1143 Q3-09 DO YOU PERFORM ANY TASKS ON THE DON'T REMEMBER WHICH FUNCTION OF VARIABLE TIME ANALOG-TO-DIGITAL (A/D) | 0 0 0 | 0 0 0 | 0 0 0 |
| Q1144 Q3-10 DO YOU USE OR REFER TO SAMPLE FUNCTION OF A/D CONVERTERS. | 0 0 0 | 0 0 0 | 0 0 0 |
| Q1145 Q3-11 DO YOU USE OR REFER TO HOLD FUNCTION OF A/D CONVERTERS. | 0 0 0 | 0 0 0 | 0 0 0 |
| Q1146 Q3-12 DO YOU USE OR REFER TO COMPARE FUNCTION OF A/D CONVERTERS. | 0 0 0 | 0 0 0 | 0 0 0 |
| Q1147 Q3-13 DO YOU USE OR REFER TO DIGITAL FUNCTION OF A/D CONVERTERS. | 0 0 0 | 0 0 0 | 0 0 0 |
| Q1148 Q3-14 DO YOU PERFORM ANY TASKS ON MECHANICAL ANALOG-TO-DIGITAL (A/D) CONVERTERS. | 0 0 0 | 0 0 0 | 0 0 0 |
| <u>Q1149 Q2-11 ON YOUR PRESENT JOB DO YOU WORK WITH SCHMITT TRIGGER CIRCUITS.</u> | 0 0 0 | 0 0 0 | 0 0 0 |
| <u>Q1150 Q2-12 ON YOUR PRESENT JOB DO YOU WORK WITH SCHMITT TRIGGER CIRCUITS.</u> | 0 0 0 | 0 0 0 | 0 0 0 |

- GPSUM9 PAGE 141

MODULE 55 - DIGITAL/ANALOG CONVERTERS

PCT MEMBERS ANSWERING YES FOR OPER DAFSC GPS
 TASK GROUP SUMMARY
 PERCENT MEMBERS PERFORMING

GPSUNE_PAGE 192

DETERMINATIONS

333-1 PERIOD 33372

DY-TSK

64 SPC SWC
 0000 026 027

R1151 R2-02 DO YOU TRACE DATA FLOW THROUGH SCHMITT TRIGGER SCHEMATIC DIAGRAMS.
 R1152 R2-03 DO YOU USE OR REFER TO SCHMITT TRIGGER LOGIC SYMBOLS.

R1153 R3-01 DO YOU PRESENT JOB TO YOU TO FABRICATE MULTICO
CONDUCTOR CABLES.

R1154 R3-02 DO YOU FABRICATE COAXIAL CABLES.

S1155 S1-01 ON YOUR PRESENT JOB DO YOU PERFORM ANY TASKS ON VISUAL READOUT SYSTEMS.

S1156 S1-02 DO YOU PERFORM ANY TASKS ON MIXIE LIGHTS OR NIXIE LIGHT DECODE SYSTEMS.

S1157 S1-03 DO YOU ANALYZE NIXIE LIGHT DECODE SYSTEMS USING BOOLEAN ALGEBRA.

S1158 S2-01 DO YOU WORK WITH PHOTO TUBES ON YOUR PRESENT JOB.

S1159 S2-02 DO YOU PRESENT JOB TO YOU WORK WITH CHOPPER CIRCUITS.

S1160 S3-02 DO YOU MEASURE EXCITATION FREQUENCY OF CHOPPER COILS.

S1161 S3-03 DO YOU MEASURE VOLTAGE-CURRENT PHASE RELATIONSHIP OF CHOPPER COILS.

S1162 S3-04 DO YOU USE OR REFER TO EXCITATION FREQUENCY OF CHOPPER COILS.

S1163 S3-05 DO YOU USE OR REFER TO VOLTAGE-CURRENT PHASE RELATIONSHIP OF CHOPPER COILS.

S1164 S3-06 DO YOU USE SERVOS IN CONJUNCTION WITH CHOPPER CIRCUIT OPERATION.

S1165 S3-07 DO YOU USE DETECTORS IN CONJUNCTION WITH CHOPPER CIRCUIT OPERATION.

S1166 S3-08 DO YOU USE ERROR SIGNAL DEVICES IN CONJUNCTION WITH CHOPPER CIRCUIT OPERATION.

S1167 S3-09 DO YOU USE COMPARISON IN CONJUNCTION WITH CHOPPER CIRCUIT OPERATION.

T1168 T1-01 DOES YOUR PRESENT JOB INVOLVE ANY TASKS DEALING WITH INFRARED SYSTEMS.

T1169 T1-02 DO YOU INSPECT INFRARED SYSTEMS.

T1170 T1-03 DO YOU CLEAN INFRARED SYSTEMS.

T1171 T1-04 DO YOU ADJUST OR CALIBRATE INFRARED SYSTEMS.

T1172 T1-05 DO YOU OPERATE INFRARED SYSTEMS.

T1173 T1-06 DO YOU TROUBLESHOOT WIRE CONNECTIONS OF INFRARED SYSTEMS.

T1174 T1-07 DO YOU TROUBLESHOOT MAJOR ASSEMBLIES OF INFRARED SYSTEMS.

T1175 T1-08 DO YOU TROUBLESHOOT DOWN TO COMPONENT PARTS OF INFRARED SYSTEMS.

T1176 T1-09 DO YOU REMOVE OR REPLACE MAJOR ASSEMBLIES OF INFRARED SYSTEMS.

T1177 T1-10 DO YOU REMOVE OR REPLACE COMPONENT PARTS OF INFRARED SYSTEMS.

MODULE 78 - FABRICATE MULTI-CONDUCTOR AND COAXIAL CABLES

PCT MARS ANSWERS YES FOR OPER. DATE: 5/24
 TASK GROUP SUMMARY
 PERCENT MEMBERS PERFORMING

APPROVED PAGE 193

TASK GROUP SUMMARY
 PERCENT MEMBERS PERFORMING

OPERATIONS
 30830 30330 30670

DY-LISK

T1178 T1-11 DO YOU USE OR REFER TO FAR REGION.
 T1179 T1-12 DO YOU USE OR REFER TO INTERMEDIATE REGION.
 T1180 T1-13 DO YOU USE OR REFER TO NEAR REGION.
 T1181 T1-14 DO YOU USE OR REFER TO MICRONIMI.
 T1182 T1-15 DO YOU USE OR REFER TO GRAY BODIES.
T1183 T1-16 DO YOU USE OR REFER TO BLACK BODIES.
 T1184 T1-17 DO YOU USE OR REFER TO ABSORPTION.
 T1185 T1-18 DO YOU USE OR REFER TO SCATTERING.
 T1186 T1-19 DO YOU USE OR REFER TO ABSOLUTE ZERO.
 T1187 T1-20 DO YOU PERFORM TASKS ON SLITZ.
 T1188 T1-21 DO YOU PERFORM TASKS ON TARGET BUTTONS.
T1189 T1-22 DO YOU PERFORM TASKS ON EJECTOR LENSES.
 T1190 T1-23 DO YOU PERFORM TASKS ON OCULAR LENSES.
 T1191 T1-24 DO YOU PERFORM TASKS ON CONNECTION LENSES.
 T1192 T1-25 DO YOU PERFORM TASKS ON FILTERS.
 T1193 T1-26 DO YOU PERFORM TASKS ON SPHERICAL MIRRORS.
 T1194 T1-27 DO YOU PERFORM TASKS ON PLANE MIRRORS.

T1195 T2-01 DOES YOUR PRESENT JOB INVOLVE ANY TASKS DEALING WITH LASERS.

T1196 T2-02 DO YOU INSPECT LASERS.
 T1197 T2-03 DO YOU CLEAN LASERS.
 T1198 T2-04 DO YOU ADJUST OR CALIBRATE LASERS.
 T1199 T2-05 DO YOU OPERATE LASERS.
 T1200 T2-06 DO YOU TROUBLESHOOT WIRE CONNECTIONS OF LASERS.
 T1201 T2-07 DO YOU TROUBLESHOOT MAJOR ASSEMBLIES OF LASERS.
 T1202 T2-08 DO YOU TROUBLESHOOT DOWN TO COMPONENT PARTS OF LASERS.
 T1203 T2-09 DO YOU REMOVE OR REPLACE MAJOR ASSEMBLIES OF LASERS.
 T1204 T2-10 DO YOU REMOVE OR REPLACE COMPONENT PARTS OF LASERS.
 T1205 T2-11 DO YOU USE OR REFER TO ANGSTROMS (A).
 T1206 T2-12 DO YOU USE OR REFER TO ELECTRON ENERGY LEVELS.
 T1207 T2-13 DO YOU USE OR REFER TO GROUND STATE.
 T1208 T2-14 DO YOU USE OR REFER TO EXCITED STATE.
 T1209 T2-15 DO YOU USE OR REFER TO PACKET OF RADIATION.
 T1210 T2-16 DO YOU USE OR REFER TO PHOTONS.
 T1211 T2-17 DO YOU USE OR REFER TO SPONTANEOUS EMISSION.
 T1212 T2-18 DO YOU USE OR REFER TO STIMULATED EMISSION.
 T1213 T2-19 DO YOU USE OR REFER TO COHERENCE OR INCOHERENCE.
 T1214 T2-20 DO YOU USE OR REFER TO INVERSION LEVEL.
 T1215 T2-21 DO YOU USE OR REFER TO MONOCHROMATIC.
 T1216 T2-22 DO YOU WORK WITH ACTIVE MATERIALS.
 T1217 T2-23 DO YOU WORK WITH PUMPING SOURCE.
 T1218 T2-24 DO YOU WORK WITH FULL SILVERED (100% REFLECTIVE) MIRRORS.
 T1219 T2-25 DO YOU WORK WITH HALF SILVERED (92% REFLECTIVE) MIRRORS.

PCP WORKS ANSWER YES FOR OPER DATA OF GPS

TASK GROUP SUMMARY
PERCENT MEMBERS PERFORMING

GPSUMM PAGE 149

OPERATIONS

308XC 3C230 3C670

| | DY-TSK | GP
0009 | SPC
026 | SPC
027 |
|-------------|---|------------|------------|------------|
| T1221 T2-26 | DO YOU WORK WITH HELICAL FLASHTUBES. | 0 | 0 | 0 |
| T1221 T2-27 | DOES YOUR PRESENT JOB INVOLVE ANY TASKS WHICH REQUIRE YOU TO WORK WITH RUBY. | 0 | 0 | 0 |
| T1222 T2-28 | DOES YOUR PRESENT JOB INVOLVE ANY TASKS WHICH REQUIRE YOU TO WORK WITH HELIUM-NEON. | 0 | 0 | 0 |
| T1223 T2-29 | DOES YOUR PRESENT JOB INVOLVE ANY TASKS WHICH REQUIRE YOU TO WORK WITH MELIUM-XENON. | 0 | 0 | 0 |
| T1224 T2-30 | DOES YOUR PRESENT JOB INVOLVE ANY TASKS WHICH REQUIRE YOU TO WORK WITH XENON. | 0 | 0 | 0 |
| T1225 T2-31 | DOES YOUR PRESENT JOB INVOLVE ANY TASKS WHICH REQUIRE YOU TO WORK WITH CERIUM-MELIUM. | 0 | 0 | 0 |
| T1226 T2-32 | DOES YOUR PRESENT JOB INVOLVE ANY TASKS WHICH REQUIRE YOU TO WORK WITH ARGON. | 0 | 0 | 0 |
| T1227 T2-33 | DOES YOUR PRESENT JOB INVOLVE ANY TASKS WHICH REQUIRE YOU TO WORK WITH NEODYMIUM IN GLASS. | 0 | 0 | 0 |
| T1228 T2-34 | DOES YOUR PRESENT JOB INVOLVE ANY TASKS WHICH REQUIRE YOU TO WORK WITH GALLIUM ARSENIDE. | 0 | 0 | 0 |
| T1229 T3-01 | DO YOU WORK WITH DISPLAY TUBES, SUCH AS DIRECT VISION STORAGE (DVST) OR MULTIPLE DVST OR HVSST? | 0 | 0 | 0 |
| T1230 T3-02 | DO YOU INSPECT DVST OR HVSST. | 0 | 0 | 0 |
| T1231 T3-03 | DO YOU CLEAN DVST OR HVSST. | 0 | 0 | 0 |
| T1232 T3-04 | DO YOU ADJUST OR CALIBRATE DVST OR HVSST. | 0 | 0 | 0 |
| T1233 T3-05 | DO YOU OPERATE/OPERATE A SYSTEM THAT CONTAINS A DVST OR HVSST. | 0 | 0 | 0 |
| T1234 T3-06 | DO YOU TROUBLESHOOT DVST OR HVSST CIRCUITS. | 0 | 0 | 0 |
| T1235 T3-07 | DO YOU REMOVE OR REPLACE THE DVST OR HVSST TUBE FROM ITS MAJOR ASSEMBLY OR UNIT (YOU ACTUALLY REMOVE DVST). | 0 | 0 | 0 |
| T1236 T3-08 | DO YOU PERFORM TASKS THAT MAKE IT NECESSARY TO BE ABLE TO NAME THE VARIOUS ELEMENTS OF DVST. | 0 | 0 | 0 |
| T1237 T3-09 | DO YOU PERFORM TASKS THAT MAKE IT NECESSARY TO BE ABLE TO NAME THE VARIOUS ELEMENTS OF HVSST. | 0 | 0 | 0 |
| T1238 T3-10 | DO YOU PERFORM TASKS ON FLOOD GUNS. | 0 | 0 | 0 |
| T1239 T3-11 | DO YOU PERFORM TASKS ON WRITE GUNS. | 0 | 0 | 0 |
| T1240 T3-12 | DO YOU PERFORM TASKS ON ATTACK GUNS. | 0 | 0 | 0 |
| T1241 T3-13 | DO YOU PERFORM TASKS ON ERASE GUNS. | 0 | 0 | 0 |
| T1242 T3-14 | DO YOU PERFORM TASKS ON STORAGE GRIDSS. | 0 | 0 | 0 |
| C1243 UT-01 | ON YOUR PRESENT JOB, DO YOU PERFORM ANY PROGRAMMING TASKS. | 1 | 22 | 2 |
| U1244 U1-02 | DO YOU USE OR REFER TO DECIMAL SYSTEMS. | 5 | 4 | 4 |
| U1245 U1-03 | DO YOU USE OR REFER TO PROGRAMS. | 1 | 22 | 0 |
| U1246 U1-04 | DO YOU USE OR REFER TO HEXADECIMAL SYSTEMS. | 6 | 4 | 4 |
| U1247 U1-05 | DO YOU USE OR REFER TO B64-2-1 SYSTEMS. | 0 | 0 | 0 |
| U1248 U1-06 | DO YOU USE OR REFER TO FOUR SYSTEMS. | 0 | 0 | 0 |
| U1249 U1-07 | DO YOU USE OR REFER TO BINARY SYSTEMS. | 3 | 11 | 0 |
| U1250 U1-08 | DO YOU USE OR REFER TO TIME-SHARING. | 3 | 0 | 4 |

PCI MRS ANSWERS FOR OPER_BAESC.GPS
TASK GROUP SUMMARY
PERCENT MEMBERS PERFORMING

68305 PAGE 195

OPERATIONS
308X0 30830 30870

GP SPC SPC
0004 026 027

DO-19K

U1251 U1-09 DO YOU USE QR REFER TO DATA WORDS. 0 11 8
U1252 U1-10 DO YOU USE OR REFER TO ADDRESS WORDS. 0 11 8
U1253 U1-11 DO YOU USE OR REFER TO ADDRESS\SUBADDRESS. 5 11 8
U1254 U1-12 DO YOU USE OR REFER TO STEERING\INFORMATION. 5 11 8
U1255 U1-13 DO YOU USE OR REFER TO INFORMATION WORDS. 0 0 0
U1256 U1-14 DO YOU PER KH TASKS ON SINGLE LEVEL PROGRAMMING 2 4 0
SYSTEMS.
U1257 U1-15 DO YOU PERFORM TASKS ON MULTI-LEVEL PROGRAMMING 0 0 0
SYSTEMS.
U1258 U1-16 DO YOU PERFORM TASKS ON INPUT DEVICES. 2 6 0
U1259 U1-17 DO YOU PERFORM TASKS ON STORAGE DEVICES. 9 0 11
U1260 U1-18 DO YOU PERFORM TASKS ON ARITHMETIC SECTIONS. 2 4 0
U1261 U1-19 DO YOU PERFORM TASKS ON CONTROL SECTIONS. 0 0 0
U1262 U1-20 DO YOU PERFORM TASKS ON OUTPUT DEVICES. 2 3 0
U1263 U1-21 DO YOU PERFORM TASKS ON POWER SUPPLIES. 6 4 6
U1264 U2-01 DO YOU USE OCTETS TO EXPRESS ATTENUATION AND 0 0 0
ATTENUATION.
U1265 U2-02 DO YOU USE LOGARITHMS TO COMPUTE OUTPUT POWER IN 3 0 3
DECIBELS.
U1266 U2-03 DO YOU USE LOGARITHMS TO COMPUTE ATTENUATION IN 3 0 3
DECIBELS.
U1267 DUMMY QUESTION TO FACILITATE SETCHECK 0 0 0